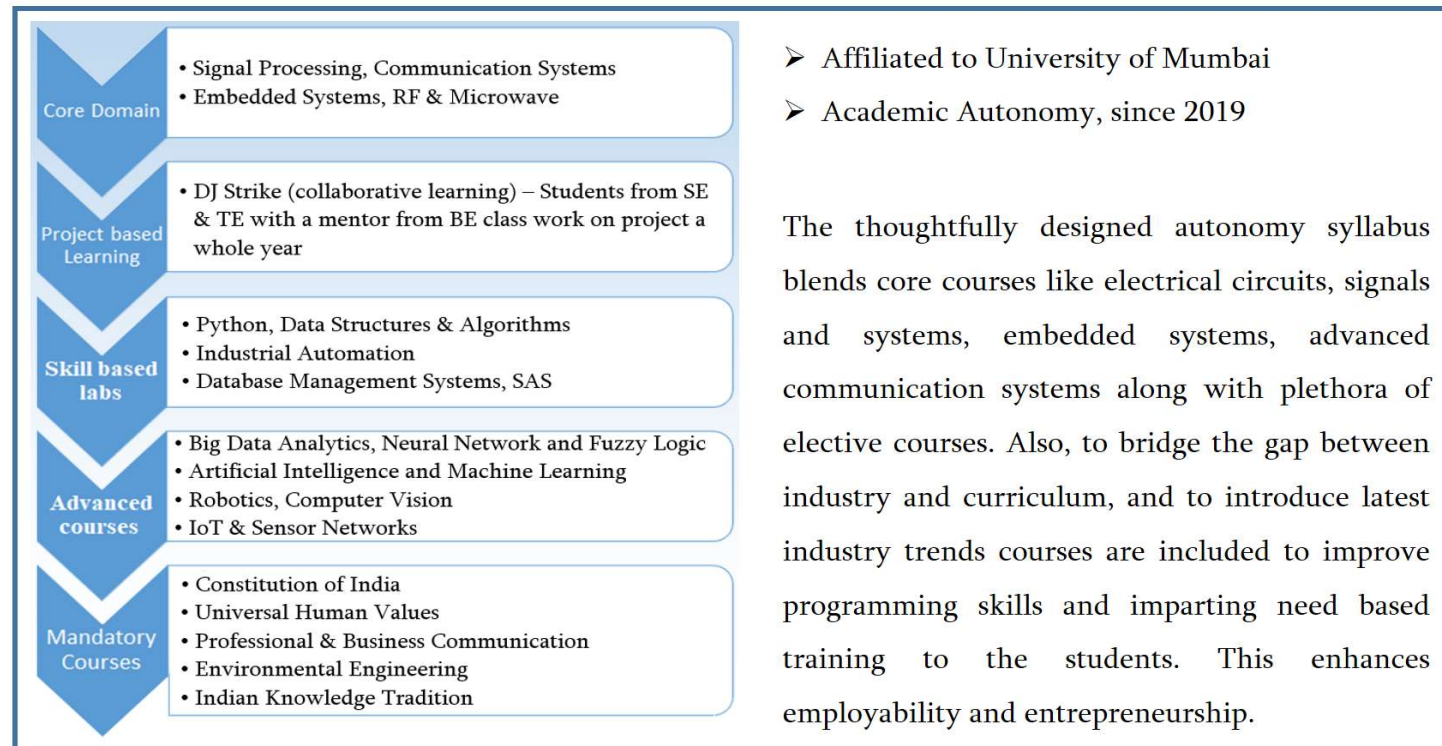





Program: Electronics and Telecommunication Engineering (NBA Accredited)

Year of establishment: 1999 **Current intake:** B.Tech: 180, M.Tech. : 9, Ph.D.: 10

Program Curriculum:



Resources:



State-of-the-art infrastructure

- Smart boards
- Air conditioned classrooms
- Laboratories with modern equipment
 - Radio Frequency Lab
 - Wireless Network Lab
 - Basic Communication Lab
 - Advanced Communication Lab
 - Electronics Devices Lab
 - Simulation Lab
 - Embedded Systems Lab
 - Signal Processing Lab
 - Project Lab

Because of highly qualified & dedicated faculty members, well-planned academic activities and equipped laboratories, the students get better exposure to the recent technologies.



Departmental Activities & Achievements:

DJS Arya

- Official cannister satellite (CanSat) team
- Participate each year at the annual International CanSat competition, conducted by the American Astronomical Society (AAS) in collaboration with NASA.
- **CanSat Competition 2021-22**
Overall Rank 12 – Worldwide

DJS Antariksh

- Enthusiastic space exploration and robotics team
- Participated in 4 major competitions:
 - **European Rover Challenge (ERC) 2021:** 1st Rank Worldwide
 - **International Planetary Aerial Systems Challenge (IPASC) 2021:** 2nd Rank Worldwide
 - **International Mars Hackathon (IMH) 2020:** Overall Rank 8th
 - **European Rover Challenge (ERC) 2020:** Overall 3rd Position globally



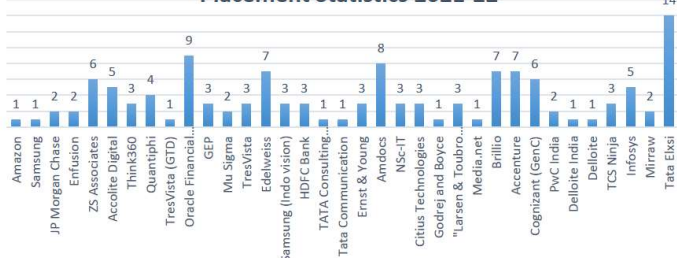
Potential employability avenues and higher studies

CTC in 2021-22

Maximum : 28 LPA (Amazon), Median: - 6.5LPA
 Average : - 7.60 LPA, Minimum: - 3.5 LPA



Placement Statistics 2021-22



Many of our students pursue their post graduation in various domains like AIML, Data Science and MIS from esteemed foreign universities and renowned national institutes like IIT, IISc & NIT etc.



For further details contact us at: Dept. of EXT-C, D. J. Sanghvi College of Engineering, Opp. Cooper Hospital, Vile Parle (W), Mumbai 400056. Tel. No.: 022-26123892, 022-42335000
 Website: www.djsce.ac.in E-mail: hod.extc@djsce.ac.in



Shri Vile Parle Kelavani Mandal's Dwarkadas J. Sanghvi College of Engineering

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NAAC Accredited with "A" Grade (CGPA: 3.18)



Department of Mechanical Engineering

Year of establishment : 2011

Current Intake : (A.Y. 2022-23)

- B.Tech. – 180 (FY) + 12 (direct SY)
- M.Tech. – 18
- Ph.D. – 10

Major curriculum areas/courses:

- Computer Aided Design and Analysis
- IT enabled Manufacturing
- Mechatronics and Automation
- Operations Research and Supply chain
- Additive manufacturing
- Thermal Engineering and Refrigeration

Resources :

- Fully air-conditioned multimedia classrooms
- Well-equipped laboratories
- State of the art CNC facility
- Bosch Rexroth Centre of Excellence

Potential employability avenues:

Mechanical Engineers find ample opportunities in sectors, such as Automobile, Aviation, Acoustics, Refrigeration and Air-conditioning, Power Generation and Transmission, Consumer goods, Construction, Defence, Electronics, Energy Management, Fabrication Plants, Chemical Plants, Marine, Pharmaceuticals, Rail and Utilities, Petrochemicals, Oil and Natural Gas, Management Consultants, Hospitality, Computational Technology Companies, Space Administration, Cement and Steel Plants, Nuclear Science & Technology and other allied areas.

Students have been placed in companies, such as Reliance Industries, Godrej & Boyce, Larsen & Toubro, Technip, MuSigma, Blue Star, Tata Consulting Engineers, Petrofac, Burns & McDonnell, WorleyParsons, Imaginarium, TCS, Infosys and Capgemini, etc.

Departmental Activities and Achievements:

- S.A.E., I.S.M.E., I.S.H.R.A.E. and R.A.S. student chapters
- DJS Skylark – overall 3rd in both Regular and Micro class in SAE Aero Design (Texas).
- DJS Phoenix – overall 8th in virtual - COEX Competition 2022 (Moscow).
- DJS Racing – overall 4th in Formula Bharat 2022.
- DJS Kronos – Champions in virtual dynamics event in e-BAJA 2022.
- DJS Kronos – overall 9th in m-BAJA 2022.
- DJS Miles – 2nd in Future Rider Competition (Asia-Pacific & Middle-East Region) in Shell Eco-Marathon 2022.
- DJS Karting – Champions in combustion vehicle category and overall 3rd in electric vehicle category in Go Kart Design Challenge Concept 2021.
- DJS Helios – 2nd in Design Report in Electric Solar Vehicle Championship 2021.
- DJS Speedsters – 2nd Runner-up in FMAE Moto Student 2020.
- 03 patents and 07 design registrations granted by the Indian Patent and Trade Marks Office and other International agencies.
- The 3rd International Conference – ICIMA 2022 to be organised on 18th and 19th November to foster research in the field of advances in Intelligent Manufacturing and Automation.
- 06 seminars/ webinars organised during the AY 2021-22.
- DJS Nirmiti – a tech fest consisting of events like Bull Run, B Plan, CADD Challenge, Treasure hunt and Cricket auction, organised from 8th March to 11th March 2022.
- 122 placement offers received from 39 reputed organizations and industries for the batch of 2021-22.



Department of Information Technology

Information Technology is the study, design, development, implementation, support or management of computer-based information systems particularly software applications and computer hardware. To keep pace with the current technological trends and to sharpen their skills, faculty development workshops are carried out regularly. A highly skilled, dynamic, and technologically sound faculty endows the IT department. IT students have striven hard to achieve many awards and laurels for the college and many of the department alumnus work for big MNCs.

Year of establishment: 1999

Current Intake: 180

Major Courses of the curriculum:

- Algorithms and Programming Paradigms
- System Fundamentals, Networking and Security
- Artificial Intelligence and Machine Learning
- Big Data Analytics, Business Analytics
- Human Computer Interaction, UI/UX
- Design Thinking
- Blockchain Technology
- Parallel and Distributed Computing, Quantum Computing
- Internet of Things (IoT)
- Innovative Product Development

Resources:

- Fully air-conditioned multimedia equipped classrooms.
- Wi-Fi enabled laboratories with advanced software and hardware.

Potential employability avenues in JP Morgan Chase, ZS Associates, Quantiphi, Oracle, Deloitte, Capgemini, Morgan Stanley, Amazon, Google, LinkedIn as:

- Software Developers/Tester
- Database/Network Administrators
- System Analyst/ Data Scientists, Business Analyst

Departmental Activities and Achievements:

- Organized various competitive programming contests such as: **Code Shashtra** and State level project competition **DJASCI**.
- DJCSI has organized Graphic Designing and UI/UX Inter-College Competition titled **PIXEL PARANOI**.
- GDSC DJSC has organized various events such as "**Open Source 101**", **Android Student Jam**.
- Training and guiding workshops for Internships, Placements, Competitions, Competitive Exams and recent technologies.
- Winners at **National Level Hackathons**, JPMC Code for Good Hackathon, KJSCE Hack 6.0, RGIT Recursion 3.0, LOC 4.0.
- Students getting selected for internship at **Harvard's Digital Soul Team**.
- **Best Paper Awards** at various International Conferences.





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Department of Information Technology

DJCSI ORGANISING COMMITTEE

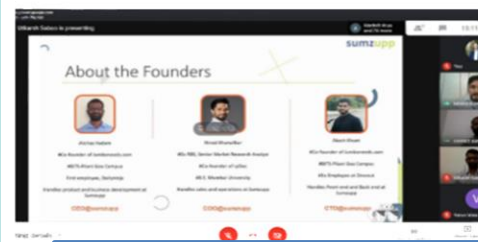
Awarded as the Best Accredited Student Branch by Computer Society of India at CSI Annual Convention



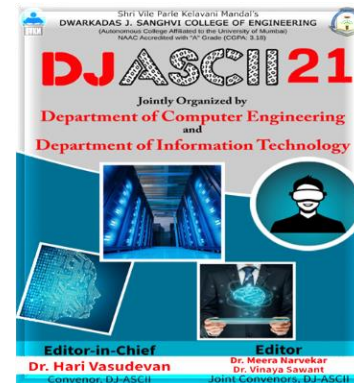
INTERNATIONAL CONFERENCE - DJICACTA



DEPARTMENT ACTIVITIES



ANDROID DEVELOPMENT WEBINAR



For further details contact us at: Principal / Vice Principal, D. J. Sanghvi College of Engineering, Opp. Cooper Hospital, Vile Parle (W), Mumbai 400056.

Tel. No.: 022-42335000

Website: www.djsce.ac.in E-mail: info@djsce.ac.in



Department of Computer Engineering

Year of establishment: 2001

Current Intake: B. Tech- 180 (F.Y) + 36 (direct S.Y), M. Tech- 18, Ph.D – 10 (AY. 2022-23)

Major Courses of the curriculum:

- Data Structures & Algorithms
- Distributed Computing
- System Security
- Artificial Intelligence & Soft Computing
- Machine Learning & Deep Learning
- Data Science and Analytics
- Open source Technologies
- Internet of Things
- Block chain Technology

Resources:

- Fully air-conditioned multimedia classrooms.
- Wi-Fi enabled laboratories with advanced software and hardware.
- Digital Learning resource sharing through NPTEL (IITs & IISc), Virtual Labs, Student portal and Smart Board.
- Professional training and certification program for SAS and SAP.
- Technical infrastructure and platform to design and develop advanced application.
- Excellent support system for research culture and entrepreneurship.

Potential employability avenues:

- Amazon, Google, Facebook.
- IT Services: - Amdocs, ZS Associates, Mu-Sigma, Deloitte, Infosys, Capgemini,
- TCS, Accolite, Edelweiss, EY.
- Banking Sector: - Morgan Stanley, JP Morgan, BNP; Consulting: - EY, PwC,
- Goldman Sachs, Quantify, RBL Bank.

Departmental Activities:

- ICACTA (International Conference on Computing Applications).
- DJASCI (State Level Project Competition) for students to demonstrate their projects.
- Internship Fair- Students gets opportunity for internship in various domains through this event.
- Total 30 companies offered various paid internships to the students in AY 2021-22.
- Lines of Code (LOC) 4.0(Hackathon). It is a 24-Hour coding competition.
- ACM's 101 – In this event, Alumni guide the current students for the preparation of Placement and Higher studies.
- Mock Interviews – Mock interviews are conducted to prepare the students for the placement drive.
- Breaking the Blockchain-Workshop on Blockchain technology was organized by the industry experts.

Notable Achievements and Accolades of the students:

- Winner of the Google Girls hackathon, wherein students received prize money of 1000 USD and a preplacement opportunity at Google.
- Students placed in global top tech companies like GOOGLE and AMAZON with attractive packages.
- Student secured internship opportunity at Adobe with a stipend of Rs 1,00,000 pm.
- Winner of JPMC's Code for Good(CFG) hackathon, received winning certificate and an iPad.
- Winner at TVS CREDIT EPIC IT CHALLENGE 3, won a cash prize of Rs.75000.
- Secured 1st place by team StackUnderFlow, won a cash prize of Rs. 25,000 and goodies at LOC Hackathon organized by DJ ACM.
- 2nd position and cash prize of Rs. 20,000 at TSEC Hacks Hackathon organized by TSEC.
- Awarded with "ET Campus Stars 2021".



INTERSHIP FAIR-2022



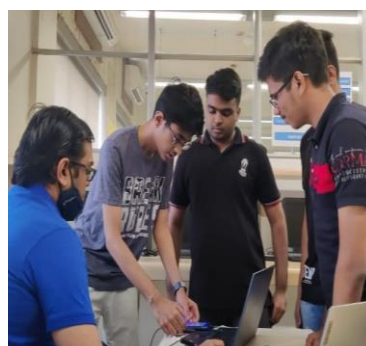
ACM MEMBERSHIP DRIVE & EVENTS



DJ ICACTA



HACKATHON WINNERS



LINE OF CODE- 2022



DJ ASCII



Shri Vile Parle Kelavani Mandal's

Dwarkadas J. Sanghvi College of Engineering

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Department of Computer Science and Engineering (Data Science)

About the Branch:

For the last many decades, statisticians and computer engineering professionals have been helping industries to improve their business performance. **Data Science** is a field which combines the advancements in Analytics and Computer Science to bring insights to decision makers by analyzing vast amounts of data at very high speeds. Considering the growing interest and opportunities in this field, Dwarkadas J. Sanghvi College of Engineering has introduced a new AICTE approved branch of engineering named as "**Computer Science and Engineering (Data Science)**" from the academic year **2020-2021**. Total intake of the department is **120**.

Major Courses of the curriculum:

- **First Year:** This year will focus on the **foundation courses** in Mathematics, Sciences, Mechanics and Electrical/ Electronics. The courses will be a blend of theory, tutorials and workshops which will help the student to strengthen their basics in **the fundamental science, engineering and mathematics**.
- **Second Year:** In the second year, we aim to introduce the student to the **core concepts of statistics and computer engineering**. The focus will be to build skills in **algorithm building, database engineering, data visualization and designing intelligent systems**.
- **Third year:** This will be pivotal year in the 4-year course, where the curriculum focuses on various aspects of **Artificial intelligence, Deep learning, Time Series Analysis, Recommender Systems and Natural language processing**. Concepts of data engineering involving **Big Data, Cloud, Data lake, NoSQL, Hadoop** will also form a part of the credits during this year.

- **Final year:** Final year focus is to develop niche skills in **XAI/QAI, High Performance Computing, Deep Sequence Modelling, Quantum Computing, Optimization, Predictive Analysis, Spatial Analysis and Healthcare Data Science**. Institute electives are floated to choose **interdisciplinary subjects** such as Finance, Supply chain, Cyber Security etc.

Students are given the opportunities to have experiential based learning through **Project work and Internships**. They will be exposed to following softwares.

Tableau	SAS Miner	Matlab	Kafka	Oracle	Python
Amazon Sage Maker	SPSS	Hadoop	Redis	Big ML	Java
SAS Visual Analytics	Rapid Miner	Spark	Neo4j	Protégé	Scala
Base SAS	Mongo DB	HIVE	Power BI	Cassandra	C

Opportunities for Research/Higher Studies

Leading universities in Europe and US offers Post-Graduate and Doctoral programmes in various domains of **Computer Science and Engineering (Data Science)**. Keeping pace with these opportunities, Indian and US government offers grants for research and startups to budding engineers especially in emerging areas of technology. Following are **top US universities** where the students of this branch can apply for higher studies:

- University of California- Berkley
- Carnegie Mellon University
- Massachusetts Institute of Technology
- Stanford University
- University of Washington
- Cornell University
- Georgia Institute of Technology
- University of Illinois- Urbana Champaign



Shri Vile Parle Kelavani Mandal's Dwarkadas J. Sanghvi College of Engineering

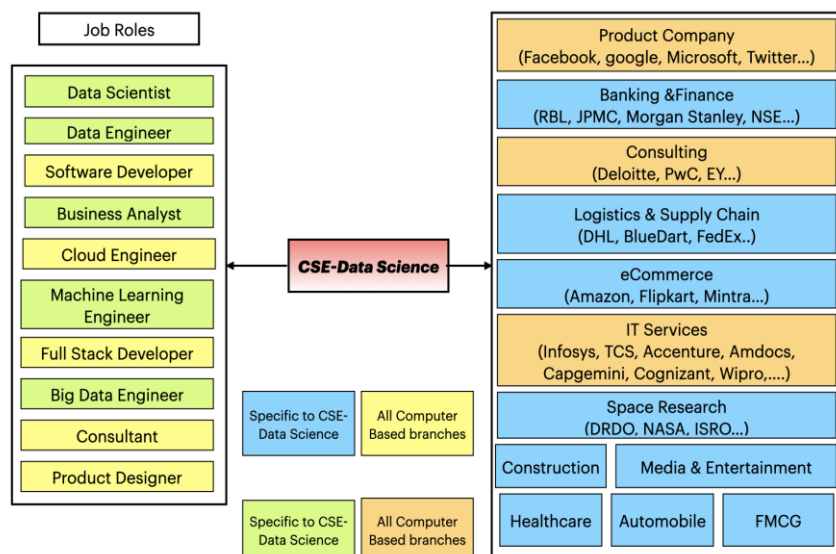
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Department of Computer Science and Engineering (Data Science)

Potential employability avenues:

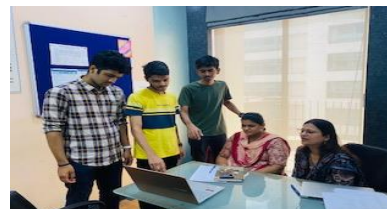
For the year 2022, Glassdoor, a leading internet company on job trends, named **Data Scientist** as one of the most desired jobs globally with a **median salary of \$120,000** followed by **DevOps Engineer**, **Machine Learning Engineer** and **Data Engineer**. Based on the curriculum design students passing from this branch could be placed in various industries as shown below.



Student Clubs and Student Chapters:



Department Activities:



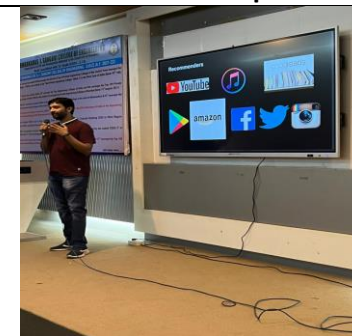
Project Discussion



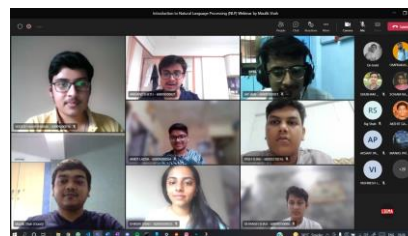
Data Science Competition



Seminar



Expert Session



Online Workshop



Prize Distribution



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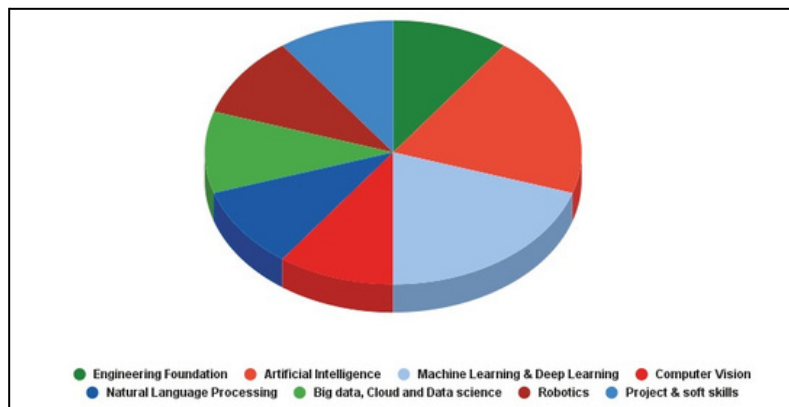
Department of Artificial Intelligence And Machine Learning

Year of establishment: A.Y. 2021-22

Current Intake: 60 students

Coined in the year 1956 by John McCarthy's, the term "Artificial intelligence" (AI) has become exceedingly significant today due to increased data volumes, advanced algorithms, and improvements in computing power and storage. AI is a wide-ranging branch of computer science concerned with building smart machines capable of performing tasks that typically require human intelligence. Machine Learning, a subset of AI, is defined as "the field of study that gives computers the capability to learn without being explicitly programmed" by Arthur Samuel in the year 1959. Artificial intelligence will transform the global economy and opportunities in AI are in high demand.

Major courses of the curriculum:



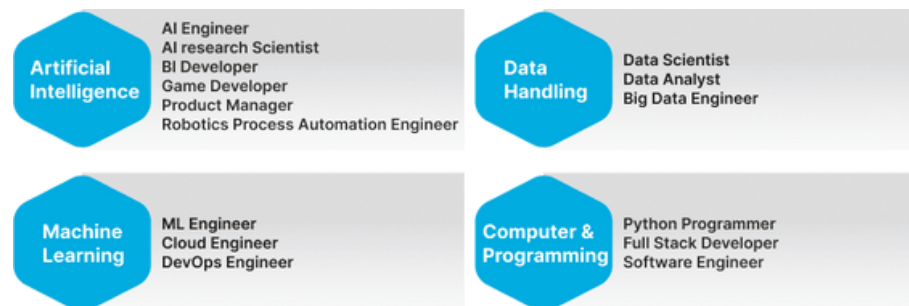
Resources :

The Department of Artificial Intelligence and Machine Learning is equipped with:

- Fully air-conditioned spacious classrooms
- Well-equipped laboratories and workshops
- New age computer facilities
- Well-stocked library providing a stimulating educational environment within the College
- Qualified and experienced faculty members
- Better infrastructural facilities; the College has been adding new equipment and furniture

Potential employability avenues:

Some job opportunities with related companies are:



AI based technologies are used in a variety of scientific research fields, such as climate prediction, healthcare, agriculture, robotics, material science, satellite communication etc. Governments worldwide encourage research and startups in artificial intelligence by announcing grants to implement projects aimed at producing new and better solutions. Students may also pursue higher studies from Indian or foreign universities in following domains.

M.S. Artificial Intelligence

M.S. Data Science

M.S. Computer Engineering

M.S. Financial Engineering

M.Tech. Artificial Intelligence

M.Tech. Data Science

M.Tech. Computer Science

MBA



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Department of Artificial Intelligence and Data Science

D.J. Sanghvi College of Engineering proudly presents four-year B. Tech course on Artificial Intelligence and Data Science, one of the emerging areas identified by AICTE and MHRD with an ultimate goal to nurture the academic excellence, industry exposure and outstanding career opportunities to our students. The major focus of this programme is to train students on statistical tools, mathematical models, machine learning, knowledge discovery and data visualization skills, so that they are able to apply AI techniques into real world applications and perform intelligent data analysis.

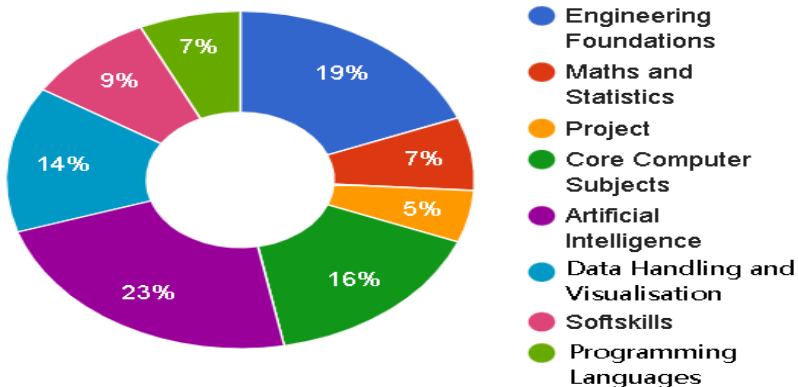
Year of establishment: 2021-22

Current Intake: 60

Major Courses of the curriculum:

This course is designed to teach the underlying concepts of AI, Machine Learning and Data Science and how they can be used to solve real-world problems

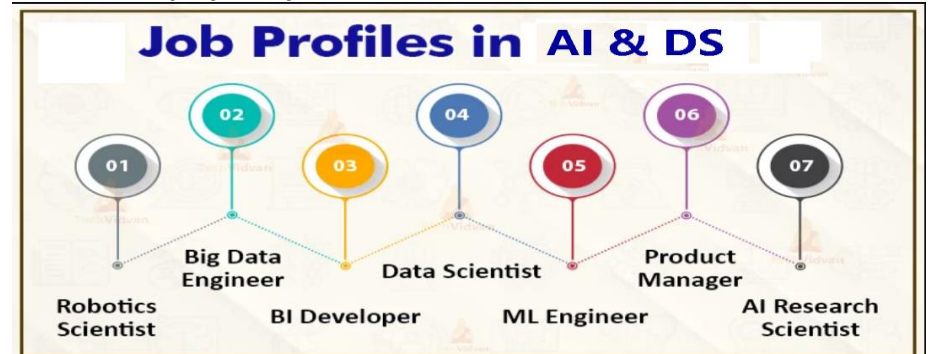
Domain-wise Distribution



Resources:

- Spacious, air-conditioned classrooms.
- Laboratories and workshops using modern equipment.
- Modern computing capabilities.
- A well-stocked library that offers a vibrant learning atmosphere inside the campus.
- Knowledgeable and Qualified professors.
- Improved infrastructure; the College has been installing new equipment and furniture.

Potential employability avenues:



YAHOO!

Kodak

NOKIA
Connecting People

xerox



Canon

IBM



Microsoft



For further details contact us at: Principal / Vice Principal, D. J. Sanghvi College of Engineering, Opp. Cooper Hospital, Vile Parle (W), Mumbai 400056.

Tel. No.: 022-42335000

Website: www.djsce.ac.in E-mail: info@djsce.ac.in



Computer Science and Engineering (IOT and Cyber Security with Block Chain Technology)

This undergraduate programme familiarizes the students with the functional and operational aspects of IoT, Cyber Security and Blockchain Technology.

Why Internet of Things (IoT)?

IoT is a pervasive technology that permits computing devices, to accomplish data transmission over a network, without demanding human-to-human or human-to-computer collaboration. IoT applications like smart industry, smart home, smart city, smart healthcare etc. focus on automating different tasks in these wide-ranging areas. These IoT applications are highly promising to increase the level of comfort, efficiency and automation for the users.

Why Cybersecurity?

As more businesses move their operations online, and with cyberattacks on the rise, the need for skilled cybersecurity professionals is ever increasing, particularly for healthcare and financial organizations. Any industry that transacts online or carries sensitive data needs a Cyber Security professional to safeguard its data from vulnerabilities.

Why Blockchain?

Blockchain technology or Distributed Ledger Technology (DLT) implements a decentralized, distributed ledger that records a digital asset. By its inherent design, the data on a blockchain is safe and protected from modifications. Blockchain has its ability to create more transparency and fairness, while also saving businesses time and money. The demand for people with Blockchain skills is high due to its many-field applications.

Year of establishment: 2021-22

Current Intake: 60

Major Courses of the curriculum:

- ❖ Internet of Things
- ❖ Programming Languages (C, Java, Python)
- ❖ Blockchain Technologies
- ❖ Embedded Systems
- ❖ Cyber Security
- ❖ Vulnerability Assessment and Penetration Testing
- ❖ Ethical Hacking
- ❖ Cryptocurrencies
- ❖ Artificial Intelligence and Machine Learning.
- ❖ Deep Learning

Resources:

- ❖ Wi-Fi enabled well-equipped laboratories.
- ❖ Air-Conditioned and Multimedia enabled classrooms.
- ❖ High end computer systems
- ❖ Departmental Library
- ❖ Experienced, dynamic, and qualified Faculty members.

Potential employability avenues:

Cyber Security

- Cyber Security Engineer
- Network Security Engineer
- Security Architect
- Security Associate

Cloud and IOT

- Cloud Engineer
- Cloud Architect
- Solutions Architect
- Embedded Engineer

Blockchain

- Blockchain Architect.
- Blockchain Project Manager
- Blockchain quality Engineer.
- Blockchain UX designer.

AI, ML & Data Science

- Data Scientist
- M.L Engineer
- Data Architect
- Data Engineer