

Akshat Dalal

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Languages: Hindi (native), English (proficient)

Education

JECRC UNIVERSITY

Bachelor of Technology, Computer Science and Engineering, CGPA 8.60/10.00
(Expected)

Jaipur, Rajasthan
2023- 2027

- Select Coursework: Software Development; Quantitative Development; Web Development; Machine Learning, Deep Learning, Neural Networks, Reinforcement Learning.
- Clubs and Activities: JECRC Incubation Centre, Makerspace, MUN, Aashayein, NCC.

Awards and Honours

NATIONAL ENTREPRENEURSHIP CHALLENGE, IIT BOMBAY

Awardee

Mumbai, India
February 2024

- Created a hypothetical event on entrepreneurship summit with a team of 8 people which ranked 1st among 15000 colleges
- Skills - Interpersonal skills, Team work, Graphic designing

Research & Experience

ML Research Intern – NIT Kurukshetra.

Researcher; Project lead: Prof. Amandeep Kaur

Haryana, India

July 2025 – August 2025

- Developed LSTM models for stock prediction (15% improved accuracy over baseline).
- Built NLP pipeline analyzing 10K+ financial news items daily.
- Contributed to market volatility forecasting project.

JECRC UNIVERSITY (funding organization)

Researcher; Project lead: Prof. Ajay Kumar

Jaipur, India

October 2024 – Present

Project summary: Developing an advanced FDM-type 3D printer with four extruders, optimized for multi-material and multi-colour printing. This printer is designed for robust network functionality with IoT integration, allowing wireless G-Code uploads via Wi-Fi.

- Coordinating in a team of 6 students on “FDM-type 3D printer” project
- Working on integrating a camera module to remotely monitor the printing process in real-time
- Created 3D models, sliced them, and generated G-code files to prepare prints
- Tested, evaluated and documented experimental carbon fiber–nylon filament blends to validate the printer’s versatility.

Projects

Algorithmic Trading Strategy – Python.

- Developed a momentum-based equity trading algorithm with custom backtesting over 2 years of historical OHLCV data.
- Achieved 1.2 Sharpe ratio with cost modeling and daily rebalancing.
- Designed a modular framework allowing signal tuning, multi-asset testing, and parameterized strategy evaluation.
- Validated against benchmarks using drawdown and volatility analysis.

Leadership and Activities

GLOBAL LEADERSHIP & BUSINESS CERTIFICATION THE GLOBAL BUSINESS SYMPOSIUM

(Event to be held at Clare College, University of Cambridge)

Cambridge, UK

Delegate

26 - 30 August 2025

- Invited to attend the symposium as an Indian delegate to generate actionable outcomes in entrepreneurial sector

STARTUP MAHAKUMBH

(Event held at Pragati Maidan, New Delhi)

Student Volunteer for MeitY

- Represented JECRC University at Startup Mahakumbh

GOVERNMENT OF INDIA

Delhi, India

3-5 April 2025

RISING RAJASTHAN

(Event held at Jaipur Exhibition and Convention Centre, Jaipur)

Team Coordinator

GOVERNMENT OF RAJASTHAN

Jaipur, India

2 December – 11 December 2024

- Coordinated with a team of 60 to manage the complete database of the event
- Monitored database integrity, security and confidentiality through monitoring and controlling user access

YOUTH SUMMIT

(Event held at Manipal National Institute of Technology, Jaipur)

FREELANCE PROJECT

Jaipur, India

Under Secretary Design

30 August – 1 September 2024

- Designed 430 custom placards, custom youth book for 320+ participants, identity cards for 27 judges and standy for the event [[link](#)]
- Created Instagram posts for organization's promotion and relevant information outlay which resulted in a turnover of 320+ participants from about 15 Jaipur-based schools in the first event organized by the organization [[link](#)]

AASHAYEIN

(Event promotion and database)

Volunteer

JECRC UNIVERSITY

Jaipur, India

5 December 2023

- Co-developed the database for Blood Donation Camp on MS Excel for 2,350 blood donors
- Managed event promotions by designing standy and social media posts to increase participation by 34.5% and donations by 19% [[link](#)]

Extra-curricular Activities

Activities with university associations:

JECRC INCUBATION CENTRE

Social Media Manager

Jaipur, India

December 2024 – Present

- Selection rate: 0.1%
- Analysed Instagram and LinkedIn trends for social media posts tailored with regular updates on JIC's updates including future events, speakers and entrepreneurship information
- Optimized daily reports to curate posts in collaboration with the design team
- Increased content engagement on the JIC pages across Social Networking Sites by 11%

ENTREPRENEURSHIP SUMMIT, IIT ROORKEE

Roorkee, India

Participant

February 2025

- Participated in the summit with a team of 4 in affiliation with JECRC Incubation club; **results awaiting**
- Collaborated in a team of four to prepare a business pitch for the “Strategy Showdown” competition which included but was not limited to business analysis, expected revenue generation, marketing strategy, strategies to increase scalability, user and customer acquisition

JECRC INCUBATION CENTRE

Jaipur, India

Head Graphics

October 2024 – November 2024

- Selection rate: 0.4%
- Defined and prioritized design projects for the team of graphic designers for streamlining projects in the pipeline
- Lead design projects to improve engagement by 60%

MAKERSPACE

Jaipur, India

Member

September 2023 - Present

- Selection rate: 10%
- Created a line following gripper robot in a team of 4 people
- Designed posters for Makerspace carnival and other minor events [[link](#)]

JECRC UNIVERSITY MUN SOCIETY

Jaipur, India

Core Member

October 2023 - Present

- Selection rate: 10%; only B.Tech. student in the cohort
- Managed society event “Diplomacy Summit”
- Designed the society logo [[link](#)], poster for “Protsahan” event [[link](#)]
- Designed brochures for JUMUN society [[link](#)]
- Created content for society’s Instagram page [[link1](#); [link2](#)]

JECRC INCUBATION CENTRE

Jaipur, India

Core Member

October 2023 – September 2024

- Selection rate: 8%
- Designed 3 Newsletters (2 quarterly, 1 funding), 1 NEC Magazine and standy [[link](#)]
- Designed promotional posts for the society’s Instagram page [[link](#)]
- Designed posters, standy, and jury posts for JIC’s “RISE” event [[link](#)]
- Designed society t-shirts [[link](#)]

Independent participation in events:

NASA SPACE CHALLENGE

Participant

- Conducted a community mapping project through Geographic Information Systems (GIS) to facilitate informed, data-driven decisions for positive change

Online

5-6 October 2024

YOUNG INDIA SYMPOSIUM (YIS)

Participant

- Participated in the symposium on theme Vision@2047

JECRC University, Jaipur, India

February 2024

YOUNG INDIA SYMPOSIUM (YIS)

Designer

- Designed one poster for “Vision@2047” event [[link](#)]

JECRC University, Jaipur, India

February 2024

Skills

Programming Languages: C++, Python, JavaScript

Systems: Linux, Git, Docker

Machine Learning: NLP, TensorFlow, Keras, scikit-learn

Concurrency: Multithreading, Process Synchronization, Shared Memory

Design Tools: Adobe Creative Suite(Photoshop, Illustrator, After Effects, InDesign), Blender