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## Akshat Dalal

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**Languages:** Hindi (native), English (proficient)

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## Education

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### JECRC UNIVERSITY

Jaipur, Rajasthan

*Bachelor of Technology, Computer Science and Engineering, CGPA 8.60/10.00*

2023- 2027

(Expected)

- 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.

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## Awards and Honours

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### NATIONAL ENTREPRENEURSHIP CHALLENGE, IIT BOMBAY

Mumbai, India

*Awardee*

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

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## Research & Experience

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### ML Research Intern – NIT Kurukshetra.

Haryana, India

*Researcher; Project lead: Prof. Amandeep Kaur*

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)

Jaipur, India

*Researcher; Project lead: Prof. Ajay Kumar*

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

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### 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

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**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 GOVERNMENT OF INDIA**  
(Event held at Pragati Maidan, New Delhi) Delhi, India  
**Student Volunteer for MeitY** 3-5 April 2025

- Represented JECRC University at Startup Mahakumbh

**RISING RAJASTHAN GOVERNMENT OF RAJASTHAN**  
(Event held at Jaipur Exhibition and Convention Centre, Jaipur) Jaipur, India  
**Team Coordinator** 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 FREELANCE PROJECT**  
(Event held at Manipal National Institute of Technology, Jaipur) 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 JECRC UNIVERSITY**  
(Event promotion and database) Jaipur, India  
**Volunteer** 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

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### Activities with university associations:

#### JECRC INCUBATION CENTRE

Jaipur, India

##### *Social Media Manager*

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**

Online

#### ***Participant***

5-6 October 2024

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

### **YOUNG INDIA SYMPOSIUM (YIS)**

JECRC University, Jaipur, India

#### ***Participant***

February 2024

- Participated in the symposium on theme Vision@2047

### **YOUNG INDIA SYMPOSIUM (YIS)**

JECRC University, Jaipur, India

#### ***Designer***

February 2024

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

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## **Skills**

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**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