

# ADITYA SINGH

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## EDUCATION

### • Amity University

B.Tech (Computer Science and Engineering)

◦ CGPA: 8.64

Sep 2021 - Jun 2025

Lucknow, India

## EXPERIENCE

### • Outlier AI

AI Trainer

Feb 2025 - Present

Remote

- Trained generative AI models by evaluating and ranking AI-generated responses for coherence and relevance.
- Composed diverse prompts and short stories to enhance AI language generation capabilities.
- Assessed factual accuracy of AI-produced content to ensure high-quality outputs.

### • Oriental InfraTrust

Computer Vision Intern

Jul 2024 - Sep 2024

Remote

- Engineered a Computer Vision Model, improving image detection efficiency by 25 %
- Optimized image processing, improving clarity and accuracy by 20 %.
- Enhanced vehicle and license plate recognition with advanced image recognition algorithms.
- Streamlined image capture and processing, reducing workflow inefficiencies by 10 %.

### • United Mentors Pvt. Ltd.

Data Science Intern

May 2024 - July 2024

Remote

- Developed interactive Power BI dashboards, improving data visualization and stakeholder insights.
- Employed Python (Pandas, NumPy) for data analysis, enhancing data processing efficiency.
- Utilized SQL to extract and manage data, enabling better decision-making through structured queries.
- Conducted trend analysis on complex datasets, identifying key business insights.

## PROJECTS

### • Speech Transcription and Translation

Tools: Python, Google Colaboratory, Gradio, Hugging Face, Microsoft Visual Studio Code, Git



- Led a team to develop and optimize a transformer model for speech transcription and translation, improving efficiency.
- Integrated Whisper-large-v3 via Hugging Face, enabling ASR and translation in 100+ languages.
- Built a real-time transcription pipeline, reducing latency by 25% and improving WER by 8%.
- Enhanced model performance by fine-tuning on domain-specific datasets, improving transcription accuracy.

### • Budget Wise: A Budget Tracking App

Tools: Next.js 14, Clerk, Tailwind CSS, Typescript, PostgreSQL, Prisma, Neon



- Developed a modern dashboard app with Next.js 14, featuring secure authentication and real-time data visualization.
- Integrated financial management tools including real-time budget tracking, multi-currency support, and detailed transaction history.
- Engineered interactive charts for spending analysis, budget vs. actual comparisons, and category-wise breakdowns.
- Optimized performance with responsive design, cross-device sync, and enterprise-grade security measures.

• Github Profile Finder

Tools: Next.js, Github API, Tailwind CSS, React, TypeScript, Vercel



- Developed a system for finding profiles on github
- Implemented Next.js to create a responsive and dynamic user interface.
- Designed a search component for efficient retrieval of GitHub profile.
- Integrated RESTful APIs to fetch and display real-time GitHub user data.

PUBLICATIONS

C=CONFERENCE, J=JOURNAL, S=IN SUBMISSION

- [S.1] Aditya Singh, et al. (2025). **AI-Driven Dynamic Difficulty Adjustment in Educational Games: Enhancing Engagement and Learning Outcomes** . Manuscript submitted for publication in *Education and Information Technologies*.
- [J.1] Shalini Agarwal, Suyash Pandey, Vishal Sarup Mathur, Aditya Singh, et al. (2025). **Cryptanalysis along with intention decoding in the encrypted corpus of text using attention transformer mechanism**. *Recent Advances in Sciences, Engineering, Information Technology & Management*, Vol.1 , Issue 1, page 8. DOI: 10.1201/9781003598152

SKILLS

- **Programming Languages:** C, C++, Python, Javascript, Typescript
- **Web Technologies:** HTML5, CSS3, React, Node.js, Next.js
- **Database Systems:** MySQL, PostgreSQL, MongoDB
- **Data Science & Machine Learning:** NumPy, Pandas, scikit-learn, TensorFlow, PyTorch, Matplotlib, Seaborn, PowerBI
- **Cloud Technologies:** AWS, Azure, Google Cloud Platform
- **DevOps & Version Control:** Git, Docker
- **Specialized Area:** Machine Learning, Deep Learning, Natural Language Processing, Computer Vision, Reinforcement Learning
- **Other Tools & Technologies:** Linux, Windows, VS Code, Visual Studio
- **Research Skills:** Data Analysis, Experimental Design, Literature Review, Statistical Analysis, Machine Learning, Technical Writing

HONORS AND AWARDS

- **Winner** September 2024  
*AI-Fusion Hackathon by Pickl.AI*
  - Designed and developed advanced models and interactive dashboards using PowerBI for predictive loan analysis, enhancing financial decision-making for a bank.
- **Winner in Local Chatbot Category** May 2024  
*Hack to Crack 1.0 by Tensorflow User Group*
  - Developed a language translation and transcription application using Whisper and Gradio.
- **Winner Bio-Code@Thon** August 2023  
*Praedictio Club*
  - Developed predictive models for analyzing multiple diseases.

LEADERSHIP EXPERIENCE

- **Team Leader, AI-Fusion Hackathon** September 2024  
*Transorg Analytics*
  - Led a team that won the AI-Fusion Hackathon, a national-level competition with 800+ participants.
  - Developed an innovative AI solution that outperformed competing teams in technical accuracy and impact.
  - Coordinated team efforts, managed time-sensitive tasks, and ensured seamless collaboration.
- **Project Lead, Environmental Awareness Initiative** September 2023  
*SAP*
  - Led a team of 8 to promote environmental awareness and tree planting.
  - Organized campaigns and engaged the local community.
  - Planted more than 20 trees to support sustainability.

## VOLUNTEER EXPERIENCE

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- **Volunteer**

August 2023

HVCO

- Visited remote village schools to teach children basic computer and technology skills.
- Engaged with students through interactive learning sessions.
- Advocated for better infrastructure by writing to local authorities for improved lighting and updated computers in school labs.

- **Member & Volunteer, ECO Club**

May 2023

Amity University

- Organized events, including an Earth Day quiz competition.
- Designed the cover page for a conference proceedings book on sustainable development.
- Supported various initiatives promoting environmental awareness on campus.

## CERTIFICATIONS

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|---|---------------|
| • <b>Open EDG:</b> <a href="#">PCAP: Programming Essentials in Python</a>               | May 2024      |
| • <b>Cisco:</b> <a href="#">Introduction to Cybersecurity</a>                           | May 2024      |
| • <b>Cisco:</b> <a href="#">Cybersecurity Essentials</a>                                | May 2024      |
| • <b>Cisco:</b> <a href="#">CCNAv7: Enterprise Networking, Security, and Automation</a> | June 2024     |
| • <b>Cisco:</b> <a href="#">CCNAv7: Switching, Routing, and Wireless Essentials</a>     | June 2024     |
| • <b>Cisco:</b> <a href="#">CCNAv7: Introduction to Networks</a>                        | December 2023 |
| • <b>IBM:</b> <a href="#">Data Science Orientation</a>                                  | October 2023  |
| • <b>IBM:</b> <a href="#">Fundamentals of C++</a>                                       | June 2022     |

## ADDITIONAL INFORMATION

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**Languages:** English (Proficient), Hindi (Mother Tongue), French (Beginner)

**Interests:** Artificial Intelligence, Machine Learning, Book Reading, Football