

Arushi Waddepalli

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EDUCATION

- Indian Institute of Information Technology, Lucknow** Lucknow, India
Bachelor of Technology - Information Technology; CGPA: 8.8 Aug 2024 - Jun 2028

SKILLS SUMMARY

- Courses:** Data Structures and Algorithms, DBMS, OOP and System Design, Operating Systems
- Languages:** Python, C, C++, JavaScript, SQL
- Frameworks:** Scikit, NumPy, Pandas, Matplotlib, Seaborn, Keras, Flask, React, Streamlit, Tensorflow, PyTorch, FastAPI
- Tools & Platforms:** Linux, Windows, GitHub, VSCode, Canva, Jupyter Notebook, Google Colab, Kaggle
- Soft Skills:** Leadership, Deadline Management, Communication, Strategic Decision Making, Technical Writing

EXPERIENCE

- Research Fellow - SPAR** Remote
Guide: Deeksha Dangwal — Cambridge ERA:AI, ex-Meta Research Sep 2026 - Present
 - Program:** Supervised Program for Alignment Research (SPAR)
 - Description:** AI safety research focused on "Constraint Drift Through Delegation Hierarchies".
- Student Researcher** Remote
Guide: Dr. Pulkit Verma — Indian Institute of Technology, Madras Sep 2026 - Present
 - Program:** Agyeya AI Safety and Interpretability Research Program
 - Description:** India's first AI safety program. 3-month research mentorship along with a fully-funded stay and workshop at IISc, Bangalore.
- Student Fellow - Databricks** Remote
Databricks' Early-Career Mentorship Program Aug 2026 - Present
 - Description:** Among top 38 students selected from 7,000+ applicants across Asia-Pacific and Japan.
- Undergraduate Researcher** Remote
Guide: Dr. Darko Marinov — University of Illinois, Urbana - Champaign (UIUC) Jun 2026 - Present
 - Program:** UIUC++ Summer Research in Software Engineering
 - Project:** Research focused on code generation by diffusion models and the resulting trustworthiness and accuracy.
- Research Intern** Mumbai, India
Guide: Dr. Asim Tewari — Indian Institute of Technology, Bombay Jun 2026 - Aug 2026
 - Lab:** National Centre for Aerospace Innovation and Research (NCAIR)
 - Project:** Interdisciplinary ML research focused on the aviation industry.
- Mentee - PayPal Career Academy for Tech** Remote
PayPal's Early-Career Mentorship Program Mar 2026 - Aug 2026
 - Description:** Among top 47 students selected from 13,000+ applicants across India. Attended sessions on Building your Personal Brand, Design Thinking and Tech for Good, Storytelling with Impact and Tech Bootcamp.

PROJECTS

- Debug Drive**:
 - Built a multi-agent **Debugger-Critic-Tester** VS Code debugging assistant with symbol-aware retrieval, model-backed patch generation, sandbox-first validation, rollback-safe apply, and benchmark evaluation across **20+ bug cases** using pass@k/fix@k and ablation reports.
 - Tech Stack:** TypeScript, Node.js, VS Code API, OpenAI API, RAG, JSON/Markdown Reports
- Aletheia**:
 - Developed a multimodal AI tool for bias and misinformation detection, combining sentence/article-level bias classification, token-level explanations with **92% interpretability**, Gemini-based neutral rewrites, and CNN/YOLO media manipulation detection with **84%** accuracy.
 - Tech Stack:** Python, FastAPI, HuggingFace Transformers, SHAP, CNNs, React, Firebase

ACHIEVEMENTS

- Online course**: Completed the Bluedot Impact **Technical AI Safety** certification.
- Problem-Solving**: Solved **1000+** problems across LeetCode (**Knight**), CodeChef (**3***), and Codeforces (**Pupil**) focused on complexity analysis and algorithmic efficiency.
- AISSE Board Exams:** Scored **99.2%** and ranked among India's **Top-5** demonstrating academic excellence.

POSITION OF RESPONSIBILITY

- Member at Axios - ML Wing, IIITL** Lucknow, India
Mentored 250+ juniors by conducting ML sessions, organizing kaggle competitions. Sep 2025 - Present