

Astubh Mishra

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EDUCATION

Army Institute of Technology

Bachelor of Engineering in Computer Science, CGPA: 8.18/10

Pune, Maharashtra

Aug 2023 – Present

Shiv Jyoti International School

Class 12th: 80.5%

Kota, Rajasthan

Jun 2022

EXPERIENCE

Backend Developer | Full-Stack Blog Application | Django, DRF, JWT, Docker, NGINX | [Link](#)

June 2025

- Built and deployed a secure blogging platform featuring JWT-based authentication, role-based access, and media uploads.
- Implemented REST APIs for post CRUD, user profiles, image handling, pagination, and tag/category-based filtering.
- Configured Dockerized environment with NGINX reverse proxy and deployed via Render.
- Designed Django admin dashboard for moderation, and added API-level permissions and rate limiting for production readiness.

AI Research Intern – Prompt Engineering & Agent Evaluation | Outlier Remote |

Oct 2024 – Jun 2025

- Applied Reinforcement Learning with Human Feedback (RLHF) to train AI agents on GitHub commits, boosting patch accuracy by 15%.
- Reduced failure rate by 12% and improved task relevance by 18% via prompt tuning on code/image tasks.
- Evaluated 2000+ LLM responses for factuality, coherence, and reasoning using Likert-based rubrics.
- Benchmarked Gemini, GPT-4, and open-source LLMs in collaborative agent pipelines.

Backend Developer | Crackhunt 2.0 | React, Django, REST Framework | [Link](#)

Apr 2025

- Engineered a secure full-stack gaming platform with 15+ sequential mini-games, enforcing level-by-level access.
- Developed and optimized RESTful APIs for user authentication, level validation, scoring, and leaderboard logic.
- Designed robust backend progression system to prevent bypassing levels or manipulating score from the frontend.
- Managed session tracking, profile storage, and dynamic user experience for 150+ real event participants.

PROJECTS

Email Spam Detection Model | Python, Google APIs, Scikit-learn, Streamlit | [Link](#)

Oct 2024 - Nov 2024

- Developed a Spam classifier using NLP and machine learning, achieving an accuracy of 90.1%. Integrated with Streamlit and deployed on Hugging Face

Coalmine Lifetime Detection System | Python, Matplotlib, NumPy, Pandas, Scikit-Learn | [Link](#)

Sep 2024

- Predicts excavation safety using sensor data and threshold-based anomaly detection, sensor data analysis and predictive modeling and deployed it on Hugging Face.

Sudoku Solver | Python, Streamlit | [Link](#)

Feb 2024 - Mar 2024

- Built a backtracking-based solver and generator with Streamlit UI and deployed it on Hugging Face.

ACHIEVEMENTS

Competitive Programming

- Solved 350+ coding problems across various topics of Data Structures and Algorithms on Leetcode. | [Profile](#)

HPAIR Conference 2025

August 2025

- Delegate at, HPAIR Asia Conference to be held from 20th to 24th August at The University of Tokyo, Tokyo, Japan.

Smart India Hackathon 2023 Winner

Dec 2023

- Developed a threat zone predictor for oil and gas industries.

SKILLS

Languages: Python, C++, JavaScript, HTML, CSS

Frameworks & Tools: Django, Streamlit, Tkinter, Docker, Git, VS Code, Google Cloud Platform, LaTeX

Libraries & APIs: NumPy, Pandas, Matplotlib, Scikit-learn, TensorFlow, PyTorch, Google API Client, Requests

Developer Platforms: GitHub, Google Colab, Canva, Blender, Graphviz

Concepts: Data Structures & Algorithms, Object-Oriented Programming, REST APIs, Authentication & Authorization, System Design Basics, Relational Databases (PostgreSQL), ORM, Deployment, CI/CD, Operating Systems, Computer Networks, DBMS

Soft Skills: Communication, Team Collaboration, Adaptability, Problem-Solving, Growth Mindset

PROGRAMMES

IDE Boot-camp Phase III by AICTE and MIC

May 2024

- Showcased our team's SIH-winning project to industry leaders from the Wadhvani Foundation and the Chairman of the Ministry of Education.

ROLE OF RESPONSIBILITY

Joint Secretary at Information Security And Digital Forensics Club

Oct 2024 – Jun 2025

- Designed and implemented technical infrastructure and challenges for multiple cybersecurity Capture the Flag (CTF) competitions, with a combined participation of over 5000+ students.
- Attended expert-led seminars on Network Intrusion, Threat Detection, and Digital Forensics under the ISDF Club.