

ISHITA AGARWAL



PROFILE

Computer Science Fresher skilled in building production-grade machine learning models, generative AI systems, and intelligent automation tools. Strong foundation in deep learning and applied mathematics with hands-on experience in Python, data pipelines, and end-to-end AI product development. Constantly seeking new job opportunities to broaden my knowledge and skills.

CONTACT DETAILS

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Portfolio

Jaipur, India

SKILLS

- Soft Skills:** Problem Solving, Communication, Teamwork, Leadership, Management
- Programming Languages:** Python, C, SQL
- AI/ML Libraries:** TensorFlow, Keras, scikit-learn, NumPy, pandas, matplotlib, NLTK
- Data Science & AI:** Machine Learning, Deep Learning, NLP, Data Analytics
- Tools & Platforms:** GitHub, AWS, Streamlit, LaTeX
- Mathematics:** Calculus, Linear Algebra, Optimisation, Probability, Graph Theory
- Operating Systems:** Windows, Linux
- Design & Documentation:** Figma, Canva, Miro, AutoCAD

LANGUAGES

English, Hindi, Sanskrit, German

HOBBIES

Writing, Reading, Astronomy

EDUCATION

GRADUATE APTITUDE TEST IN ENGINEERING (GATE) **2025**

◇ GATE Data Science & Artificial Intelligence: **AIR 3011**

◇ GATE Computer Science: **AIR 9860**

BACHELOR OF TECHNOLOGY IN COMPUTER SCIENCE ENGINEERING.

JK LakshmiPat University, Jaipur, India.

2022–Pres.

◇ CGPA: **8.5** (6th Sem)

SEMESTER EXCHANGE PROGRAM FOR BTECH IN CSE. (5th Semester)

IIIT, Hyderabad, India.

2024

◇ CGPA: **7**

SENIOR SECONDARY SCHOOL. *Jaipuria Vidyalaya, Jaipur, India.*

2022

◇ Graduated with **91.8%**.

SECONDARY SCHOOL. *Jaipuria Vidyalaya, Jaipur, India.*

2020

◇ Graduated with **92.8%**.

PROFESSIONAL EXPERIENCE

RESEARCH INTERN at RAMAN Lab, MNIT Jaipur.

2025, June-July.

◇ Machine Learning, Deep Learning, Python

Worked on adaptive learning rate scheduling using GNNs and Integrated Information Theory to optimise CNN training, improving convergence stability and efficiency, while experimenting with entropy-based metrics.

SOFTWARE DEVELOPER INTERN (REMOTE) at DigiMonk Ltd.

2024, May-July.

◇ Python, Computer Vision, Game Development, OOP

Built a cognitive assessment suite using Python's Mediapipe for gesture tracking, Pygame & Flet for interface, and BLE for connectivity with the hardware device. Implemented object detection, event-driven logic, and score-tracking for evaluation.

PROJECTS

LEGAL DOCUMENT DEMYSTIFIER (Github Link)

2025

◇ NLP, RAG, Python, Google Cloud, React

Developed Vertex AI-powered system for simplifying legal documents, extracting clauses, generating case summaries, and answering user queries using RAG. Integrated vector search, prompt engineering, and domain-specific fine-tuning for improved legal comprehension. Built for the Google GenAI Hackathon.

PLATEFUL MOBILE APPLICATION (Github Link)

2025

◇ Software Engineering, Python, SQL.

Designed an end-to-end system connecting food suppliers with NGOs using Python, SQL, and secure backend workflows. Implemented real-time inventory management, donor analytics, and request-matching algorithms. Facilitating the distribution of surplus food while providing affordable, high-quality meals to the needy.

CRIME MAPPING & PREDICTIVE POLICING SYSTEM (Github Link)

2025

◇ Machine Learning, Optimisation, Python, HTML.

Developed a predictive policing system using clustering, feature engineering, and Dijkstra based route optimisation with a Flask-based dashboard for real-time on-map hotspot visualisation using geo-mapped New York's historical crime data.

FLOOD PREDICTION SYSTEM & CHATBOT (Github Link)

2024

◇ Machine Learning, Computer Vision, Python.

Developed a model to identify flood-prone areas by integrating flood occurrence data with precipitation patterns and geographical information, using CHRS dataset, with Digital Elevation Model (DEM) analysis using raster images to obtain elevation maps for risks in low-lying areas, presented at Megathon'24.

TRAFFIC PREDICTION & MANAGEMENT SYSTEM (Github Link)

2024

◇ Computer Vision, Machine Learning, Python.

Addresses traffic jam and congestion problems, by studying video datasets, predicting the active & passive times for the route, and detects traffic rules' violation by counting the number of vehicles in a specific time. Prepared to compete at Hack JKLU 3.0

CERTIFICATIONS

• INTRODUCTION TO **GENERATIVE AI MODELS**. *MNIT, Jaipur, India*

2025

• DEEP LEARNING A-Z 2024: NEURAL NETWORKS, AI & CHATGPT. *Udemy*

2024

• DATA-DRIVEN ANALYTICS WITH MACHINE LEARNING. *MNIT, Jaipur, India*

2023