

Ananya Singh

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Education

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| University of Petroleum and Energy Studies <i>B. Tech in Computer Science Engineering - Specialization in AIML</i> <i>Minor Specialization in Big Data</i> CGPA: 8.43/10 (Till end of VIIIth semester) | Sep 2021 – Aug 2025 Dehradun, Uttarakhand |
| Central Academy, Prayagraj <i>Class XII - CBSE</i> Percentage: 91.33% | 2019 – 2020 Prayagraj, Uttar Pradesh |
| Central Academy, Prayagraj <i>Class X - CBSE</i> Percentage: 86.2% | 2017 – 2018 Prayagraj, Uttar Pradesh |

Experience

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| Delhivery <i>Devops Intern (AWS, Google Chats, AI Agents, LLM)</i> • Built AI-driven incident analytics by correlating logs, metrics, and traces to detect system anomalies. • Automated incident monitoring and alerting pipelines using Coralogix and CubeAPM. • Developed intelligent RCA workflows to identify root causes and improve operational decision-making. | Jun 2025 – Dec 2025 Gurugram |
| HERE Technologies <i>Project Intern</i> • Scrapped store locations for brands such as McDonald's, Samsung, and Peter England in Ireland and India, delivering the data in GEOJSON format for geographic analysis. | Jun 2024 – Jul 2024 Remote |
| PwC Analytics Insight Launchpad <i>Associate</i> • Completed certification in PwC's Analytics Insight Launchpad program, enhancing digital analytics and data-driven insights skills with a focus on practical applications. | May 2024 – Jun 2024 Remote |
| Social Empowerment Society, Dr. APJ Abdul Kalam Research Foundation <i>Social Internship</i> • Contributed to Sustainable Development Goal (SDG) 3 (Good Health and Well-being) by designing and conducting health surveys in communities, analyzing data, and formulating community-specific health plans. | Jun 2022 – Jul 2022 Remote |

Projects

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| Crowd Monitoring and Management System – Mahakumbh (Link) • Technologies Used: Python, Image Processing, YOLOv5, CNN • Description: Developed a real-time crowd analytics and alerting system to estimate density and identify overcrowding risks during large-scale events. Enabled automated alerts and visual insights to support faster monitoring and response. | Jan 2025 – Jun 2025 |
| Avatar: Object Placement in Text-Conditioned Scene (Link) • Technologies Used: Python, Stable Diffusion, Rembg, Vision Transformer, YOLOv5, OpenCV, Matplotlib • Description: Placed product images into realistic, AI-generated scenes using text prompts. Performed background removal, object classification, scene generation, surface detection, and intelligent image composition. | Mar 2025 – Jun 2025 |
| MedGen – Generative AI Text to Image (Link) • Technologies Used: Python, Tkinter Lib (Frontend), NLP, Image Processing, RNN, CNN, GAN • Description: Utilizes RNN, CNN, and GAN to convert medical text descriptions into realistic images, enhancing medical education, diagnostics, and research. | Aug 2024 – Dec 2024 |
| Deep Fake Face Detection (Link) • Technologies Used: Python, Tkinter Lib (Frontend), Image Processing, CNN, LSTM • Description: A hybrid model combining Convolutional Neural Networks (CNNs) and Long Short-Term Memory (LSTM) networks, trained on 140,000 images, achieving 87.8% accuracy in distinguishing deepfake from authentic images. | Jan 2024 – Jul 2024 |

Technical Proficiency / Skills

Languages: Python, SQL, R (basic), Advanced Excel

Libraries/Frameworks: PyTorch, TensorFlow, OpenCV, YOLOv5, Scikit-learn, matplotlib

Tools & Platforms: Apache Spark (PySpark), Hadoop (basics), VS Code, Kaggle, Git, Trello, Canva

Data/ML Skills: Data Validation, Data Cleaning, Data Governance, Reporting, Dashboard Creation, Data Integrity Checks, Data Analysis, Data Preprocessing, EDA, Feature Engineering, Model Selection, Training, Validation

Deep Learning: CNN, LSTM, GAN, Vision Transformers

Others: Stable Diffusion, NLP, Generative AI, Tkinter, Adobe XD, Attention to Detail, Process Documentation, Stakeholder Coordination

Accomplishments and Recognition

- Director of Operations Head, Microsoft Technical Community UPES, 2024-25.
- Conducted Machine Learning & Deep Learning Bootcamp under ***Cognition 2.0***, May–July 2024, mentoring and training 100+ students through hands-on sessions and projects.[\(Link\)](#)
- Ranked among the top 10 Finalist, ***UHackathon 4.0 META, 2023*** – Presented the *Traffic Signal Optimization* project using YOLO and CNN for smart traffic control.[\(Link\)](#)
- Winner of the Institutional level of ***Solve for India GeeksforGeeks x GoogleCloud Hackathon, 2023*** – Developed *Saarthi: Virtual Health Assistant* for medical guidance and emergency aid.[\(Link\)](#)
- Achieved first place in the ***TechFuse 1.0 AIML Bootcamp 2023*** competition at UPES. [\(Link\)](#)
- Campus Ambassador at **HackerEarth**, 2023.
- Design Head for **Microsoft Technical Community** UPES, 2022-2023.