

# Ananya Singh

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AnanyaSingh

Github\_AnanyaSingh

## Education

### University of Petroleum and Energy Studies

Sep 2021 – Aug 2025

B. Tech in Computer Science Engineering - Specialization in AIML

Minor Specialization in Big Data

Dehradun, Uttarakhand

CGPA: 8.43/10 (Till end of VIIIth semester)

### Central Academy, Prayagraj

2019 – 2020

Class XII - CBSE

Prayagraj, Uttar Pradesh

Percentage: 91.33%

### Central Academy, Prayagraj

2017 – 2018

Class X - CBSE

Prayagraj, Uttar Pradesh

Percentage: 86.2%

## Experience

### Delhivery

Jun 2025 – Dec 2025

Devops Intern (AWS, Google Chats, AI Agents, LLM)

Gurugram

- 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.

### HERE Technologies

Jun 2024 – Jul 2024

Project Intern

Remote

- Scraped 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.

### PwC Analytics Insight Launchpad

May 2024 – Jun 2024

Associate

Remote

- Completed certification in PwC's Analytics Insight Launchpad program, enhancing digital analytics and **data-driven insights skills** with a focus on practical applications.

### Social Empowerment Society, Dr. APJ Abdul Kalam Research Foundation

Jun 2022 – Jul 2022

Social Internship

Remote

- 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.

## Projects

### Crowd Monitoring and Management System – Mahakumbh ([Link](#))

Jan 2025 – Jun 2025

- 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.

### Avataar: Object Placement in Text-Conditioned Scene ([Link](#))

Mar 2025 – Jun 2025

- 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.

### MedGen – Generative AI Text to Image ([Link](#))

Aug 2024 – Dec 2024

- 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.

### Deep Fake Face Detection ([Link](#))

Jan 2024 – Jul 2024

- 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**.

## Technical Proficiency / Skills

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**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

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- **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.