

SUMIT SAXENA

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[Linkedin](#)

[Github](#)

SKILLS

Technical Skills: C, Python, HTML, MySQL

Soft Skills: Problem-Solving, Grit, Teamwork, Communication

Coursework: Control System, Signals and System, Digital Electronics, Embedded System, Machine Learning

Developer Tools: VS Code, Eclipse, Keil, Jupyter

Technologies/Frameworks: TensorFlow, Pytorch, GitHub

Experience

Pantech Solution

May 2023 – June 2023

Embedded System Engineer Intern

Remote

- Conducted hands-on practice in Embedded Systems and Design, focusing on microprocessors and **ARM Cortex-M architecture**. Applied Proportional-Integral-Derivative (PID) controllers for system optimization.
- Designed mini robotic systems using **ARM Assembly** for motion control and obstacle detection.

Edunet Foundation

June 2024 – July 2024

AI and Cloud Technology Intern

Remote

- Created and deployed AI models using **IBM Watson** and other AI tools on the IBM Cloud Platform.
- Enhanced proficiency in **Python, TensorFlow, and IBM Watson services**
- Participated in team-based model **deployment** challenges, improving solution turnaround time.

CODTECH IT Solutions Pvt. Ltd.

July 2024 – August 2024

Machine Learning Intern

Remote

- Built a **Text-to-Image Generator** using **GANs**, improving prototype usability by **40%**
- Developed a **Credit Card Fraud Detection System** utilizing **Python** and **Jupyter Notebook**, reducing **fraud detection** time by **30%** through optimized algorithm efficiency and robust feature engineering.
- Applied **NLP techniques** for **sentiment analysis** on movie reviews, achieving **85% prediction accuracy** with libraries such as NLTK and Scikit-learn.

Projects

Hills to Highways [Github](#) [live link](#) | **Python, Flask, Jupyter, GeoPandas, Scikit-learn, React**

September 2024

- Created a **machine learning model** to **predict road connectivity**, optimizing construction plans for **rural and hilly regions** and increasing user accessibility through an **intuitive UI**.
- Integrated **multiple models** and **boosted predictive accuracy by 25%**, enhancing geographical coverage.

E-commerce Fraud Detection Dashboard [Github](#) | **Python, Flask, JavaScript, Pandas, Matplotlib**

August 2024

- Engineered a robust **fraud detection system** using **Python, Flask**, and state-of-the-art **anomaly detection algorithms**, achieving a **25% improvement** in **fraud identification** accuracy and optimizing **transaction security**.
- Deployed **real-time data analytics and visualization** dashboards with **Pandas and Matplotlib**, providing actionable insights into **anomalies**, enhancing **fraud prevention strategies**, and improving operational scalability.

Text-to-image generator [Github Link](#) | **Python, Jupyter, GANs**

January 2025

- Engineered a **Text-to-Image Generation** system using **Python** and **GANs** to convert text into **high-quality images**,
- Reduced **image generation latency by 15%** through performance optimization techniques.

Achievements & Certifications

- **1st Place (ML Track)** at the [Hack-A-Sol 3.0 Hackathon](#), by IIIT NR, out of **3,000 teams**. September 2024
- Awarded a **Certificate of Recognition** by the **Ministry of Electronics & Information Technology** for my role as a **Campus Ambassador**
- Winner of the **Star Writer Competition** by **Times of India**, out of **500 participants**, for exceptional **content creation** and **image interpretation skills**.

Education

Dr. Bhimrao Ambedkar University, Agra

December 2021 – July 2025

Bachelor of Engineering in Electronic and Communication

CGPA - 8.27/10