Ayush Gupta

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ABOUT

An ambitious student in his third year of Bachelor of Technology in Computer Science. I am strongly passionate about the growing future of machine learning and software development and its incorporation into society, and looking for experience in the industry.

EDUCATION

Jaypee Institute of Information Technology, Noida-62 Sep. 2021 – May 2025

Bachelor of Technology in Computer Science (CGPA: 7.9)

- **Coursework**: Data Structures, Algorithms And Problem-Solving, Databases, Machine Learning, Digital Systems, Operating Systems And System Programming, Computer Organization And Architecture

EXPERIENCE

Google, SWE July. 2025

Software Developer

- **Pre-Placement Offer from Google:** Currently holding an offer for the position of Software Developer Role, received during my third year of college.

Microsoft Learn Student Ambassador Dec 2023 – Present

Beta Ambassador

- In my role as an MLSA, I Organized and conducted events and workshops to train developers on Microsoft technologies, with a focus on Azure Cloud, Azure Machine Learning, and Python.

Drivool Technologies, SDE Intern June. 2024 – Present

Software Developer Intern

- Developed a **Text-to-Speech API** for multiple Indic languages (Hindi, Marathi, Telugu, etc.) using TTS and the XTTS model, trained on an large dataset, for integration with **LLM based customer care helplines**.
- Implemented scalable **server endpoints with Flask**, enabling commercial deployment of the Text-to-Speech service on EC2 to enhance customer care helpline functionalities.

PROJECTS

State-Of-The-Art Transformer Based Intelligent Video Surveillance System Github

- Implemented **ViViT**, **VideoMAE**, and **TimeSformer** models for real-time anomaly detection in surveillance videos, achieving **92.91 Percent** accuracy in anomaly detection.
- Developed a two-stage classification pipeline that first detects anomalies and then categorizes them into **13 classes using ensemble learning**, achieving **54.21 Percent** accuracy for multiclass anomaly classification.

Clickbait Detection on YouTube Using Deep Learning, Emotional Analysis, and EDA Github

- Engineered 20 new features by conducting rigorous similarity analysis between comments, titles, and descriptions, coupled with emotional analysis leveraging the **DistilBERT-base-uncased model**.
- Demonstrated a formidable classification accuracy of **90.01 Percent** through the application of a Random Forest Classifier, showcasing the robustness of the developed methodology.

SKILLS

- **Programming Languages**: Python(Scikit-learn, NumPy, Pandas), C/C++, HTML/CSS, MYSQL, Mongodb)
- **Other Skills**: Pytorch, Tensorflow, Data Structures and Algorithms, Linux, Problem Solving Skills