PRANAY SHAURYA

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EDUCATION

VIT Bhopal

BTech, Computer Science and Engineering (Specialization in Health Informatics) *Oct 2022 – Sep 2026*

- GPA: 8.09

Mahatma Gandhi Shikshan Sansthan Bihar, India
Pre-University Education (Class 12) *june2019*

- GPA: 7.7

Darbhanga Public School Bihar, India
Secondary Education (Class 10) *june2017*

- GPA: 9.2

EXPERIENCE

GenAI Programs on Google Cloud (Hack2Skill & Virtual Internship)

- Participated in Google Cloud's GenAI Exchange Program and Virtual Internship, gaining hands-on experience with Gemini and Vertex AI.
- Applied generative AI techniques using Google Cloud tools to build and deploy scalable applications.
- completing hands-on labs on **Prompt Design in Vertex AI** and **Building Real-World AI Applications with Gemini and Image**
- **LINKS-** Build Real World AI Applications with Gemini and Imagen Skill Badge) AND (Prompt Design in Vertex AI Skill Badge)
- Pursued learning paths such as *Gemini for Google Cloud* and *Advanced Generative AI for Developers*.
- Actively continuing with advanced programs to deepen expertise in cloud-based AI development and deployment.

Research – Alzheimer's Disease Detection using Deep Learning

- Conducted research on Alzheimer's disease detection using CNNs and ML, achieving 92% accuracy on 60,000+ MRI scans with robust 5-fold cross-validation.
- Optimized preprocessing and hyperparameters to reduce overfitting by 25% and improve model precision by 15%.
- Co-authored a research paper based on this work, accepted for publication in Springer, showcasing scalable AI solutions for early diagnosis.

PROJECTS

Alzheimer Disease detection | Tools: CNN , (ML) Feb 2024 – Apr 2024

- Developed a **Machine Learning model** for early Alzheimer's detection, achieving an **accuracy of 92%**.
- Implemented **Convolutional Neural Networks (CNNs)** for medical image classification, processing **60,000+ MRI** scans.
- Leveraged **Machine Learning (ML) Alogs**, reducing training time by **30%** while maintaining high model efficiency.
- Preprocessed MRI scan datasets, improving feature extraction and increasing model precision by **15%**.
- Optimized hyperparameters, reducing **overfitting by 25%** and enhancing generalization across different datasets.
- Conducted **cross-validation with 5-fold testing**, ensuring a robust and reliable classification model.

SRT Caption Translator – Subtitle Translation Tool (Dockerized ML App) | Tools & Tech: Docker, Python, Jupyter Notebook, Hugging Face Transformers, PySRT, TensorFlow, YAML

- Developed a **100% containerized ML application** to translate `.srt` video subtitle files from **English to French** using **Hugging Face Transformers** and `pysrt`.
- Built a **custom Docker image (300MB)** from `jupyter/tensorflow-notebook`, incorporating over **3+ Python packages** via Dockerfile for NLP functionality.
- Achieved translation of **50+ subtitles per file** with near real-time performance using HuggingFace's `translation_en_to_fr` pipeline.
- Used **Docker Compose** to expose Jupyter Notebook on `localhost:8000`, mount volumes, and manage persistent I/O across **2+ host-container layers**.
- Deployed final image to **Docker Hub** with version tagging (`v1.0`), enabling **pull-and-run deployment in under 60 seconds** across systems.
- Demonstrated a complete ML workflow: from data loading → model inference → subtitle transformation → file export — all inside a **Jupyter interface**.

Skills

- **Programming Languages:** C++, Python, SQL, JavaScript, (**markup language** -HTML5)
- **Technologies:** Generative AI (Google Cloud) , Machine Learning , Frontend Web Development , Database Management, Debugging, Troubleshooting
- **Tools:** Git, GitHub, Docker
- Strong **problem-solving** and analytical thinking
- Effective **communication** and **teamwork** skills
- Quick **learning ability** and adaptability to new technologies, Strong **research** skills for technical problem-solving

Certificates

- *The Bits and Bytes of Computer Networking* ***(Coursera/Google)*** ***(https://coursera.org/share/43e2eab3ed769efc5b5bc87099b652ae)***
- ***AWS Academy Graduate*** *- AWS Academy Cloud Foundations* ***(https://www.credly.com/badges/c4e10273-62b3-45e5-8134-ecbcbd7253a3/public_url)***
- *DevOps Fundamentals* ***(IBM)*** *(https://courses.ibmcep.cognitiveclass.ai/certificates/eaef35e891334f19ae7a05791422b41f)*
- **Language:** *English (Fluent), Hindi (Fluent), Japanese (Learning)*