

DIVIJ GERA

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Computer Science graduate, with hands-on experience using core AI building blocks across applied AI and machine learning projects in healthcare, NLP, and music generation. Skilled in GenAI, LLMs, deep learning, and prompt engineering, with a track record of delivering high-impact models from research to real-world deployment. Actively seeking internship / job opportunities to continue learning and help push the innovation boundaries of intelligent systems.

EDUCATION

University of Southern California Master of Science, Computer Science (GPA: 4.0)	Los Angeles, California August 2024-Present
Delhi Technological University Bachelor of Technology, Software Engineering (CGPA: 9.09/10)	Delhi, India August 2019-May 2023

EXPERIENCE

NatWest Group, Software Engineer	July 2023-July 2024
<ul style="list-style-type: none">Developed and implemented strategy to migrate organization's entire codebase (70K+ projects) from on-prem to the cloud (AWS) to protect against data lossDesigned and developed pipelines to detect changes and modify code visibility to help establish open-source code culturePerformed data analytics on GitLab platform CI/CD runners implemented across the organization to ensure CI/CD health and improve team productivity	
Get Me Therapy, Product Manager	July 2022-July 2023
<ul style="list-style-type: none">Executed end-to-end development of the AI enhanced mental health programs, driving 15% revenue growthDeveloped several automation processes to reduce operational load and increase productivitySpearheaded design and development of the application MVP (min-viable-product)	
NatWest Group, Data Analytics Intern	June 2022-August 2022
<ul style="list-style-type: none">Constructed data mappings and workflows to migrate historic and current load processes to new toolingRetrieved and rewrote Relational Database scripts in accordance with the new Snowflake tool for load process migration	
Favcy Venture Builders, Intern	August 2021-February 2022
<ul style="list-style-type: none">Collaborated on management of the Openbook VC project, coordinating between the various teams involvedCompiled Lifetime Value and Customer Acquisition Cost valuations for up-and-coming startupsProduced UX templates for startup clients according to their respective business statements	

ACADEMIC PROJECTS

Retinal Fundus Image Analysis for Cardiovascular Disease Risk Prediction – University of Southern California (Ongoing)	
<ul style="list-style-type: none">Built AI-powered classification models to identify cardiovascular disease riskUtilized Machine Learning (ML), Deep Learning, LLMs, and GenAI to enhance predictive accuracyCollaborated with PhD candidates under Prof. Anita Penkova at USC to apply agentic AI techniques in biomedical imaging	
Music Genre Transfer Using Deep Generative Architectures	
<ul style="list-style-type: none">Prototyped a music genre transformation pipeline using Transformer, CycleGAN, VAE, StarGAN, and MusicGen on real-audio (GTZAN dataset), evaluating each model's ability to preserve melody and rhythm while adapting musical style.Adapted MusicGen LLM for audio-to-audio genre transfer via prompt conditioning, enabling real-time creative remixing through a web interface; demonstrated strong alignment between generated outputs and target genre features.	
Bias Detection and Mitigation in Clinical Large Language Models	
<ul style="list-style-type: none">Built a bias detection framework using ClinicalBERT and BioGPT on MIMIC-III EHR data, evaluating fairness across race, gender, religion, and marital status using metrics like Demographic Parity and Equalized Odds.Applied fairness mitigation techniques that cut Mean Prediction Disparity by 50%+ without impacting model accuracy.	

POSITIONS OF RESPONSIBILITY

Pratibimb - The Dramatics Society of Delhi Technological University, Head of Production / Head of Finance	
<ul style="list-style-type: none">Organized and worked on team management as well as a scriptwriter and actor in an award-winning annual production, recognized across India's toughest college competitionsManaged public relations and finances for the societySecured annual college funding of Rs. 250,000 for the society	

SKILLS

AI & ML: Gen AI | LLMs | AI Engineering | Agentic AI | Data Science | ML | Deep Learning | Prompt Engineering | NLP | Computer Vision | Information Retrieval
Development: Python | C | C++ | MySQL | GitHub | VSCode | Jupyter | Google Colab
Software & DevOps: CI/CD | DevSecOps | Kubernetes | GitLab | AWS | Informatica | Snowflake
Tools & Libraries: Scikit-learn | TensorFlow | PyTorch | Hugging Face | OpenAI API | Cursor | Github Copilot