Anushka Patil

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EDUCATION

Pune Vidyarthi Griha's College of Engineering and Technology Pune, MH,India
Bachelor of Engineering, Computer Engineering, GPA: 9.29/10 *Aug. 2021 – May 2025*
- Completed the ML Specialization Stanford Online certification by Coursera, NVIDIA Fundamentals of Deep Learning Certification, ML in Python by freecodecamp

Sir Parashurambhau College Pune, MH, India
Higher Secondary School Certificate with Vocational Electronics (Ranker), Score: 90.67% *Aug. 2019 – July 2021*

EXPERIENCE

Deep Learning Engineer – Intern Feb. 2024 – Nov. 2024
ResoluteAI Software *Remote*
- Led multiple computer vision and text extraction projects for well known clients, utilizing emerging ML technologies to enhance capabilities & improve accuracy by 30%
- Optimized hyperparameters and fine-tuned model architectures to enhance detection performance, achieving high precision, with a precision rate of 85%
- Engineered and implemented different data augmentation techniques on images to increase the training set, expanding the model's accuracy by 25%
- Implemented RAG model using Langchain, utilizing the Google GenAI Embeddings and ChatGroq Model

Lead (President) July 2023 – June 2024
Google Developer Student Clubs, PVGCOET *Pune, MH, India*
- Interviewed 80 candidates, selected a core team of 5 and a committee of 20
- Addressed 250+ students in the induction program, resulting in a 54% increase in community membership
- Directed Ideathon3.0 (flagship event), with a 160% increase in participation compared to previous editions
- Spearheaded various campaigns and initiatives that motivated students to explore 10+ different technologies

Public Relations Officer July 2022 – June 2023
Google Developer Student Clubs, PVGCOET *Pune, MH, India*
- Successfully managed PR strategies and media communications, enhancing organizational image, increasing stakeholder engagement by 40%, and boosting media coverage by 25%
- Coordinated with the principal and HOD to secure permissions for the offline conduction of events

PROJECTS

DeepInspect | *Pytorch, MySQL, PowerBI, Amazon EC2, AWS S3 bucket, AWS Glacier* July 2024 – Present
- Developing a deep-Learning based system for inspection, detection and localization of surface level defects in an Assembly line environment, aims to reduce manual inspection time by 40%
- Completed the initial design phase, architecture, SRS and conducted a literature review covering 10+ research papers, identifying key advancements and challenges in defect detection

VibeSync | *Python, Librosa, Scikit-Learn, soundfile* Oct. 2023 – Dec. 2023
- Built a system to detect and classify emotions from speech with a target accuracy of over 65%
- Utilized the RAVDESS dataset, consisting of 8 distinct emotions and 2,880 audio samples. Analyzed the working of sound and processed the data
- Implemented audio feature extraction using Librosa to analyze features such as 13 MFCCs
- Trained a MLP model, aiming for a minimum F1 score of 0.75 and assessed the model performance using accuracy, precision, recall, and confusion matrix metrics

Getvyt | *HTML, CSS, JS* Nov. 2022 – Feb. 2023
- Collaborated with 20+ students & professionals from 5+ different countries to work on the project
- Application and portal for the invitation of events

SKILLS & INTERESTS

Technical: Java, Python, C++, SQL, NoSQL, HTML/CSS, JavaScript, Data Structures and Algorithms
Libraries & Frameworks: ReactJS, NodeJS, Langchain, Tensorflow, Scikit-learn, NLTK
Platforms/ Tools: Git, GitHub, Amazon AWS, VS Code, Linux
Interests: Research, Machine Learning, Deep Learning, Generative AI, LLM, French