

VANSH OBEROI

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Education

Guru Nanak Dev University

Bachelor of Technology in Computer Science & Engineering; GPA: 3.2 (8.0/10.0)

Amritsar, India

Aug. 2022 – June 2026

Experience

EaseMyMed

Hybrid · Rajasthan, India

AI Developer Intern | LLMs (OpenAI, Gemini), Django, pyMUPDF, PIL, requests, AWS Sagemaker, Docker,

Dec. 2024 - June 2025

- Developed and managed RESTful APIs using Django REST framework.
- Integrated AI technologies (OpenAI (4o-mini) and Gemini (gemini-2.0.flash)).
- Integrated Bhashini AI voice models; implemented benchmarking and feedback mechanisms.
- Worked with images, PDFs, ZIP folders, and JSON strings.
- Utilized Google Cloud (for deployment), AWS SageMaker (for development), and configured Dockerfile and GCS storage.
- Created daily technical documentation on Notion, and researched/documented prototypes for new features.

Yours could be the next here

now, anywhere

Projects

Jute Pest Classification | Fine-tuning ResNet101x1, AWS(m5.large)

Nov 2024

- Fine-tuned a deep learning model TensorFlow's ResNet101x1 to classify 13 jute pest types with 95 accuracy on a test set of 379 images (6,443 training, 443 validation).
- Implemented preprocessing techniques: cropping, resizing, and pixel normalization.
- Optimized training on an AWS m5.large instance, achieving 10s/epoch through hyperparameter tuning (learning rate, epochs, dropout) and prefetch() for reduced data loading time.
- Utilized SparseCategoricalCrossentropy loss function and SGD optimizer.

Bombay House Price Prediction | Python, ML Regression, Streamlit, AWS Cloud EC2, NginX

August 2024

- Built a Bombay house price prediction model using Python and machine learning model(linear regressor).
- Worked with the original dataset containing approximately 13,320 rows. After rigorous cleaning, pre-processing and outlier removal, around 3220 rows were found to be non useable hence dropped.
- Utilized Streamlit + NginX reverse proxy to create a web application that hosts the model for user interaction.
- Deployed the application on AWS Cloud(EC2 instance), ensuring reliable hosting and scalability.
- Calculation of House Price based on location(out of 25), area, rooms, Town Name, Air Conditioning, Parking, and so on.

Technical Skills

Languages: Python, C++, Java, C, HTML/CSS, SQL, Cypher

Developer Tools: VS Code, Vim, Git, Android Studio, AWS SageMaker, AWS EC2, S3 buckets, GCP, Docker

Technologies/Frameworks: Scikit-learn, Beautiful-Soup, TensorFlow, OpenCV, Computer Vision cv2, Linux (Kali/Arch/Mint), Google-Colab, Django, GraphDB, GraphRAG, DataStax, Make.com, LangGraph, Ollama, Boottrap UI, LoRA, langchain, hugging-face

Professional & Volunteer Experience

ARAMBH Startup | Backend Trainee · Aug–Oct 2024 — Built & tested Python-based backend modules in a collaborative team with ECE peers.

ECell, GNDU | Design Team Head · Spring 2022–2023 — Led a **4-member team** handling full-stack design operations for the university E-Cell.

Corizo | Marketing Intern · June–July 2023 — Marketed in **niche communities**; found higher engagement in non-marketing-themed groups.

Hamari Pahchan NGO | 7-day Volunteer Intern · June 2023 — Drove **fundraising**, digital awareness, and promotions for youth education upliftment.