Heet Dobariya

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Profile

I am Heet Dobariya, a Computer Engineering student passionate about Machine Learning, AI, and IoT. I have hands-on experience in building AI-powered applications, fine-tuning LLMs, and developing solutions in predictive analytics and IoT. With a strong academic foundation, GATE qualification, and Stanford certifications, I blend technical depth with practical skills. I am eager to contribute to impactful AI systems while advancing my expertise in ML and LLMs.

Education

Pandit Deendayal Energy University — Gandhinagar, Gujarat
Bachelor of Technology in Computer Science, Minor in Internet of Things — *Sep. 2022 – May 2026*
CGPA: 9.48

Ashadeep International School — Surat, Gujarat
Higher Secondary Education — *Aug. 2020 – May 2022*

Experience

Data Science Intern — Feb 2025 – Present
Blink Analytics — *Ahmedabad, Gujarat*

- Fine-tuning and optimizing LLMs for client-specific tasks using SFT and RLHF, enhancing accuracy and contextual relevance.
- Curating domain-specific datasets with augmented samples and applying prompt engineering to improve robustness and factual grounding.
- Evaluating and debugging LLM outputs using custom benchmarks & interpretability tools in production settings.
- Working with cross-functional teams to deploy scalable AI solutions and sharing best practices on generative AI internally.

Content and Documentation Head — May 2024 – June 2025
Mind Ripple, Pandit Deendayal Energy University — *Gandhinagar, Gujarat*

- Composed and managed communication, proposals, and event documentation.

AI/ML Intern — May 2024 – June 2024
Nexus Info — *Coimbatore, Tamil Nadu*

- Programmed "TravelGuru" chat-bot and "EduAdvisor" for travel guidance and college admission.
- Designed a disease prediction system using machine learning techniques to improve diagnostic accuracy.

Projects

Scholaris - Assignment Evaluator | *Flask, MongoDB, Groq API* | GitHub Link

- Built a web app for teachers to create assignments, students to submit work, and teachers to evaluate submissions, while enabling file uploads and document parsing for formats like TXT, PDF, and DOCX.
- Developed backend with Flask (Python) and MongoDB for managing assignments and submissions, utilizing the Groq API to generate assignment questions, and designed responsive interfaces with HTML, CSS (Bootstrap), and Jinja2 templates.

TalentLens - Resume Ranking System | *BERT, SpaCy, Regression Models, Flask, MongoDB* | GitHub Link

- Built an AI-powered web app to analyze and rank resumes against job descriptions using NLP and semantic similarity.
- Implemented resume parsing, skill extraction using SpaCy, and matching using Sentence Transformers (BERT embeddings) combined with ML models (Gradient Boosting, Random Forest, Ridge, SVR) for accurate relevancy scoring.
- Designed a scalable Flask and MongoDB backend for efficient data storage and retrieval.

TravelGuru | *Python, Gemini API, Streamlit* | GitHub Link

- Engineered a travel recommendation system powered by Gemini API, implementing features for personalized trip suggestions based on user preferences.
- Created an interactive Streamlit interface for seamless retrieval of travel details, including itineraries, booking platforms, and local recommendations.

Hackathon Project: Radiation Impact Predictor (RIP) | *Python, Flask* | GitHub Link

- Built a Logistic Regression model using scikit-learn to predict space radiation effects, incorporating accuracy metrics and confusion matrix analysis.
- Developed a Flask-based web interface with data visualization capabilities for real-time radiation risk assessment and model predictions.

Crop Management System | *ESP32 Microcontroller, Arduino IDE, SMTP Protocol, Arduino Cloud Dashboard*

- Developed an ESP32-based monitoring system with sensors for temperature, humidity, light, and soil moisture; implemented email alerts and real-time data visualization using Arduino Cloud.

Car Fleet Management System | *Python, SQL* | GitHub Link

- Formulated a SQL-based system for vehicle, driver, and maintenance management to optimize fleet operations.

Certifications

Graduate Aptitude Test in Engineering (GATE) – Data Science and AI (DA) March 2025

- Qualified GATE with an AIR of 3876, a score of 432, and marks: 36/100.

Advanced Learning Algorithms (Stanford Online) April 2024

- Learned building and training neural networks using TensorFlow for multi-class classification tasks.
- Applying best practices in machine learning development to ensure models generalize well to real-world data and tasks.
- Gaining a foundational understanding of modern machine learning techniques, including supervised learning and unsupervised learning.

Supervised Machine Learning (Stanford Online) March 2024

- Practiced key regression and classification techniques, including multiple linear regression, polynomial regression, and logistic regression.

Python for Machine Learning (Great Learning) May 2023

- Mastered the use and implementation of different python libraries like pandas, NumPy and Matplotlib for ML models.

Technical Skills

Languages: Python, C, C++, Java, SQL
Developer Tools: GitHub, Cisco Packet Tracer, Arduino IDE, TinkerCAD, Oracle VirtualBox, Databricks
Libraries: pandas, NumPy, Matplotlib, Tensorflow, Keras, Scikit-learn

Interests and Hobbies

Technical: Competitive Programming, Machine Learning
Non - Technical: Gym, Drawing