HELI PATEL

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SUMMARY

A passionate and innovative technology professional specializing in machine learning, data science and development. With a strong foundation in coding, AI development, and software engineering, I seek a challenging role where I can contribute to impactful projects in the technology sector. I aim to leverage my technical expertise and problem-solving abilities to drive advancements in sustainable development, automation, and real-world applications.

PROFESSIONAL EXPERIENCE

Param Group of Companies, Vadodara, India: Data Science & Machine Learning Intern   Jan 2025 – May 2025

- Developed a mobile price prediction model by gathering data using BeautifulSoup and applying machine learning techniques.
- Web Scraping, Custom pipeline creation, model versioning, and workflow optimization.
- Managed datasets with detailed personality and relationship attributes, optimized for AI-based insights.

TECHNICAL SKILLS

Programming Languages: Python, Java, C, SQL, XML, HTML, CSS
Domains: Machine Learning, Deep Learning, Natural Language Processing (NLP), Computer Vision
Tools Technologies: Android Studio, Firebase, OpenWeatherMap, MLflow, DVC
Libraries Frameworks: TensorFlow, Pandas, Numpy, Matplotlib, Seaborn, scikit-learn, Yolo, ultralytics
Database Management: MySQL, Firebase
Miscellaneous: Full Stack Development, Mobile Application Development, Web Development, Designer

ACADEMIC PROJECTS

Crop Recommendation App   Fall 2023 – Spring 2024
Technologies Used: Android Studio, Firebase, OpenWeatherMap

- Developed an Android app to provide personalized crop recommendations based on soil type, weather conditions, and plant disease detection.
- Integrated machine learning for soil and disease analysis and used real-time weather data for accurate crop suitability predictions.
- Designed an intuitive user interface for ease of use by farmers.

Sentiment Analysis   Spring 2023
Technologies Used: Python, NLTK, scikit-learn, pandas

- Developed a sentiment analysis model to classify text data into different sentiment categories.
- Implemented machine learning algorithms for data preprocessing and model training.

Music Player   Spring 2023
Technologies Used: Java, Android Studio

- Developed an Android app that plays downloaded music files.
- Incorporated multiple color themes for a customizable user experience and designed an intuitive interface for smooth navigation.

Unit Converter   Fall 2022
Technologies Used: Java

- Developed a Java-based unit converter app capable of converting various units, including area, length, temperature, volume, data, and speed.

EDUCATION

Bachelor of Technology in Computer Science & Engineering   Graduating May 2025
Navrachana University, Vadodara, India   7.68 SGPA

Relevant coursework: Data Structures and Algorithms, Operating Systems, DBMS, Software Engineering, Computer Networks, AI/ML, Data Science, Computer Vision, Compiler Design, Cyber Security, Cloud Computing

HACKATHON

Hackathon Participant 2023

Actively participated in hackathons, developing innovative solutions across domains such as machine learning, computer vision, and automation.

Collaborated with cross-functional teams to build impactful prototypes, gaining hands-on experience in problem-solving and rapid prototyping under tight deadlines.

ACTIVITIES

Neofolks Design Team, Navrachana University 2023

Designed and developed visually compelling assets, including logos, posters, and cards, for events and promotions.

Collaborated in branding initiatives and ensured high-quality deliverables for university-wide campaigns.