

Vinay Dhorajiya

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Curious mind. AI enthusiast. Builder at heart.

Currently pursuing a Master's in Automotive Software Engineering at TU Chemnitz, I specialize in developing intelligent systems that see, understand, and act—blending computer vision, natural language processing, and machine learning. With a proven track record across startups and research-driven projects, I'm now seeking a Master's thesis opportunity where I can push the boundaries of real-world AI applications and create meaningful impact through code.

WORK EXPERIENCE

Casablanca.AI GmbH • Pforzheim, Germany • 02/2025 - 04/2025

Software Development Intern – Computer Vision • Internship

- Collaborated with cross-functional teams to troubleshoot and resolve application bugs, significantly improving overall system reliability and user experience.
- Designed and implemented new features
- Identified and resolved bugs in the application
- Optimized performance for smoother and faster processing

Buissmaster OMS • Surat, India • 08/2023 - 09/2023

Machine Learning Intern • Full-time

- Conducted data preprocessing and cleaning using NumPy, Pandas, and Scikit-learn
- Generated synthetic data and fine-tuned models to enhance accuracy and performance
- Trained YOLOv8 and Yolo-NAS models, improving precision and recall
- Utilized CVAT for meticulous data annotation and labeling, ensuring high-quality training datasets for machine learning models

Secure Infotech • Surat, India • 01/2023 - 04/2023

Python Development Intern • Full-time

- Developed sales analysis dashboard using Power BI for actionable insights
- Performed web scraping with Selenium and BeautifulSoup to gather data
- Built GUI-based software using Tkinter and Python for user-friendly applications
- Created web applications using the Flask framework, ensuring efficient backend functionality

Dassys • Surat, India • 06/2022 - 07/2022

Shopify Development Intern • Full-time

- Built and launched two custom Shopify eCommerce websites, tailored to client needs
- Designed unique, responsive themes and integrated secure payment systems
- Enhanced functionality with third-party apps for email marketing and cart recovery
- Provided ongoing client support, training, and performance tracking through Shopify analytics

SKILLS

Programming Languages: C, PHP, Python, Java

Web Technologies: HTML, CSS, JavaScript, React, XML, Liquidjs

Database Systems: MySQL, SQLite

Data Science & Machine Learning:

Scikit-learn, NumPy, Pandas, Matplotlib, LangChain, Streamlit

Cloud Technologies: Microsoft Azure

DevOps & Version Control: GitHub

Specialized Area: Computer Vision, Natural Language Processing, Generative AI, Embedded Systems

Mathematical & Statistical Tools: FAISS, Vector Databases, OpenCV

Other Tools & Technologies: Flask, PyQt, Selenium, BeautifulSoup, CVAT, Visual Studio Code, Android Studio, IntelliJ IDEA, Power BI, Cursor, PyTorch

Research Skills: Data Collection, Preprocessing, Model Training, Prompt Engineering, Performance Evaluation, Fine-tuning

AWARDS & SCHOLARSHIPS

Smart First-Aid Application for Android

SSIP Hackathon (Gujarat Hackathon)

EDUCATION

Master of Science in Automotive Software Engineering

Technische Universität Chemnitz • Chemnitz, Germany • GPA: 2,9 • 10/2023 - Present

Bachelor of Engineering in Computer Engineering

Gujarat Technological University • Ahmedabad, India • GPA: 1,5 • 06/2023

Coursework: Mathematics, Physics, Probability and Statistics, Python for Data Science, Machine Learning, Artificial Intelligence, Theory of Computation, IOT and applications, Web Programming, Information security, Database Management Systems, Engineering Graphics and Design, Data Structures, Object Oriented Programming (JAVA), Computer Organization and Architecture, Operating System, Analysis and Design of Algorithms, Computer Networks, Software Engineering, Mobile Application Development, Mobile Computing, and Wireless Communication.

PROJECTS

Cold Mail Generator • 08/2024

- Developed a tool to automate personalized cold email generation based on job listings
- Designed a system that extracts job descriptions from company careers pages and generates tailored emails based on the job requirements
- Integrated a vector database to personalize the email with relevant portfolio links

RockyBot: News Research Tool • 08/2024

- Developed a user-friendly news research tool for retrieving relevant insights from articles in the stock market and financial domains
- Users can input article URLs or upload text files to fetch article content
- Processed article content using LangChain's UnstructuredURLLoader
- Constructed embedding vectors with OpenAI's embeddings and utilized FAISS for efficient similarity search, enabling fast and accurate retrieval of relevant information
- Integrated with ChatGPT to allow users to ask queries and receive responses, along with the source URLs for reference

CERTIFICATIONS

Deep Learning with PyTorch: Generative Adversarial Network •

12/2023

Coursera

Natural Language Processing in Microsoft Azure • 06/2023

Microsoft

Build a Data Science Web App with Streamlit and Python • 12/2022

Coursera

Data Science with Python • 09/2022

Simplilearn

Python Data Structures • 10/2021

University of Michigan

Automatic Feedback System for Non- functional Street Light

SIH Hackathon (Smart India
Hackathon)