Vinay Dhorajiya

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Chemnitz, Saxony – 09111, Germany

OBJECTIVE

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.

EXPERIENCE

- **Casablanca.AI GmbH [🌐]** *Feb 2025 - Apr 2025*
  Software Development Intern– Computer Vision Pforzheim, Germany
  ◦ Contributed to the development of an AI-based Python application focused on computer vision
  ◦ Designed and implemented new features
  ◦ Identified and resolved bugs in the application
  ◦ Optimized performance for smoother and faster processing

- **Buissmaster OMS [🌐]** *Aug 2023 - Sep 2023*
  Machine Learning Engineer Intern Surat, India
  ◦ 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 [🌐]** *Jan 2023 - Apr 2023*
  Python Development Intern Surat, India
  ◦ 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 [🌐]** *Jun 2022 - Jul 2022*
  Shopify Development Intern Surat, India
  ◦ 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

EDUCATION

- **Technische Universität Chemnitz** *Oct 2023 - present*
  Master of Science in Automotive Software Engineering Chemnitz, Germany
  ◦ GPA: 2.9

- **Gujarat Technological University** *Jun 2023*
  Bachelor of Engineering in Computer Engineering Ahmedabad, India
  ◦ Grade: 1.5
  ◦ 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** *Aug 2024*
  Tools: Llama, Groq, LangChain, Streamlit, Vector Databases [O]
  - 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 emails with relevant portfolio links

- **RockyBot: News Research Tool** *Aug 2024*
  Tools: LangChain, OpenAI, FAISS, Python, ChatGPT [O]
  - 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 UnstructuredURL Loader
  - 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

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

HONORS AND AWARDS

- **Smart First-Aid Application for Android** *Oct 2022 – Nov 2022*
  SSIP Hackathon (Gujarat Hackathon) [🌐]
  - Selected and showcased at SSIP Hackathon for developing a health-focused Android app
  - Featured disease explanations and multilingual support using Google Translate
  - Included a chatbot offering health insights based on user's height, weight, BMI, and other variants

- **Automatic Feedback System for Non-functional Street Light** *Mar 2022 – Aug 2022*
  SIH Hackathon (Smart India Hackathon) [🌐]
  - Finalist project in Smart India Hackathon, addressing urban infrastructure issues
  - Developed desktop and Android apps with features like real-time mapping of faulty streetlights
  - Implemented navigation from user's location to malfunctioning streetlights for quicker resolution

CERTIFICATIONS

- **Deep Learning with PyTorch: Generative Adversarial Network – Coursera** *Dec 2023*
- **Natural Language Processing in Microsoft Azure – Microsoft** *Jun 2023*
- **Build a Data Science Web App with Streamlit and Python – Coursera** *Dec 2022*
- **Data Science with Python – Simplilearn** *Sep 2022*
- **Python Data Structures – University of Michigan** *Oct 2021*

ADDITIONAL INFORMATION

Languages: German (B1 – Intermediate), English (C2 – Proficient), Hindi (C2 – Proficient), Gujarati (C2 – Proficient)
Interests: Artificial Intelligence, Open Source Contribution, Tech Blogging, Innovation in Healthcare Tech, Hiking