Yash Hooda

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EDUCATION

University of Texas at Dallas   *Richmond, TX*
Bachelor of Science, Computer Science   *May 2024*

WORK EXPERIENCE

Archrock – Natural Gas Compression Services   *Houston, TX*
IT Data Engineer Intern   *May 2025 – Present*
- Automated phishing simulation and employee training metrics tracking using Power BI dashboards, reducing reporting delays by 50%.
- Used Microsoft Fabric, Lakehouses, and Azure Synapse pipelines to process unstructured cybersecurity training data into clean, analyzable tables.
- Developed logic to evaluate phishing click rates, training effectiveness, and report data quality issues using Python and SQL.
- Collaborated with cybersecurity and IT leadership to present insights, contributing to safer internal communication protocols.

Century Instrument & Machine Company (CIMCO)   *Houston, TX*
Data Analyst (Temporary Contractor)   *Feb 2025 – May 2025*
- Supplier Analysis & Cost Optimization: Conducted a supplier performance analysis evaluating pricing, delivery times, and quality metrics across multiple vendors, identifying 10% potential cost savings and optimizing procurement strategies.
- Data Management & Reporting: Analyzed and cleaned 1,000+ rows of operational data, developing automated reports and dashboards to track machine shop productivity, cutting reporting time by 30%.
- Training & Documentation: Designed a comprehensive machinist training document, improving onboarding efficiency. Researched and presented four cost-effective training software solutions, leading to a 25% reduction in training software expenses.
- Business Intelligence Support: Provided data-driven insights that improved supplier negotiations, enhanced operational efficiency, and streamlined internal processes.

Outlier.AI   *San Francisco, CA*
AI Trainer (Freelance Remote)   *May 2024 – Feb 2025*
- Evaluated AI model outputs, chatbot responses, and Python/NumPy code for accuracy and quality.
- Provided feedback to improve model performance by over 90%.
- Participated in various NLP and AI prompt evaluation projects.

Parijat Controlware   *Houston, TX*
Software Engineer Intern   *May 2023 – June 2023*
- Developed automation logic using PLCs in a team environment.
- Applied object detection and machine learning using RoboFlow and Python.

ACADEMIC PROJECTS

HoodaAgents, Personal   *January 2025 – June 2025*
Tools Used: Python, LangChain, OpenAI API, Streamlit, Tavily Search
- Designed and built a full-stack AI Agent framework capable of dynamic memory recall and personalized chatbot personas.
- Integrated LangChain and OpenAI API to handle task delegation, RAG, and persona-based conversation workflows.
- Deployed public demo with UI via Streamlit and TavilySearch; included Hindi language support and vector store memory.
- Positioned the project as a customizable agent stack for future client deployments under a potential startup brand "HoodaAgents".

Liver Cancer Prediction, Personal   *February 2025*
Tools Used: Python, Scikit-Learn, Pandas, NumPy, Matplotlib, Seaborn, EDA, Feature Engineering
- Analyzed a dataset of liver disease patient records to develop a machine learning model predicting the likelihood of liver cancer.
- Conducted exploratory data analysis (EDA) to identify key risk factors influencing liver cancer development.
- Implemented multiple ML algorithms, optimizing model accuracy using Random Forest and Logistic Regression.
- Created visualizations and insights to interpret feature importance and assist in early detection of liver cancer.

Virtual TA Chatbot AI, UT Dallas   *February 2024 – May 2024*
Tools Used: Python, Rasa, NLP, Visual Studio Code, LLM
- Collaborated within a 6-member team to design and develop a Virtual TA chatbot for the UT Dallas student portal.
- Engineered and trained conversational intents using Rasa to handle queries related to campus events, student services, university history, and academic support.
- Applied NLP techniques and LLM integration to enhance user experience and ensure accurate, context-aware responses.
- Improved student engagement by delivering a functional AI chatbot capable of assisting users with university-related information in real-time.

TECHNICAL SKILLS

Languages: Java, Python, C/C++, SQL, JavaScript, R
AI Tools: OpenAI ChatGPT, Google Gemini, Meta Llama, Ollama, DeepSeek R-1, Grok-3, Microsoft CoPilot, Claude, Git CoPilot
Developer Tools: Git, RStudio, Dev C++, Google Collab, VS Code, Visual Studio, Jupyter Notebooks, Microsoft Excel, Microsoft PowerBI, Tableau, Node.js, Microsoft Word, Microsoft PowerPoint, Office 365, Microsoft Fabric
Libraries: Pandas, TensorFlow, Keras, NumPy, Matplotlib, Seaborn, SciPy, Scikit-Learn, Tkinter, Rasa, MySQL Statistical Analysis: Hypothesis Testing, Regression, Time Series Analysis
Clouds: Microsoft Azure, IBM Cloud, Google Cloud
Interpersonal Skills: Teamwork, Problem-Solving, Communication, Conflict Resolution, Active Listening, Emotional Intelligence, AI Prompt Engineering

CERTIFICATIONS

IBM Professional AI Engineering Certificate, Coursera	*August 2024*
TensorFlow Developer Certification, DeepLearning.AI	*January 2024*
IBM Professional Data Science Certification, Coursera	*November 2024*
Vanderbilt University AI Prompt Engineering Certification, Coursera	*February 2025*