

Yash Hooda

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EDUCATION

University of Texas at Dallas
Bachelor of Science, Computer Science

Richardson, TX
May 2024

WORK EXPERIENCE

Century Instrument & Machine Company (CIMCO)

Data Analyst (Temporary Contractor)

Houston, TX

Feb 2025 - Present

- **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

AI Trainer (Freelance Remote)

San Francisco, CA

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

Software Engineer Intern

Houston, TX

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

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