Yash Hooda

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# EDUCATION

**University of Texas at Dallas** *Richardson, TX*

*Bachelor of Science, Computer Science May 2024*

**Data Science, AI, and Data Engineering Professional who is actively seeking Full-Time Roles**

# WORK EXPERIENCE

**Archrock – Natural Gas Compression Services** *Houston, TX*

*Post Graduate Data Engineer Intern May 2025 – Aug 2025*

* 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*