

Snehitha Pothina

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EDUCATION

Texas Tech University, Lubbock, TX

May 2025

Masters in Computer Science

GPA: 3.8975

Gayatri Vidya Parishad College of Engineering (Autonomous), Visakhapatnam, India

May 2023

Bachelors in Computer Science

GPA: 9.37/10

PROJECT EXPERIENCE

Real time Data-Driven YouTube Video Insights Using AI

January 2025 – March 2025

- Developed a **Streamlit app** for real-time YouTube video summarization, reducing video consumption time by **30%** by integrating **YouTube Transcript API** and **Google Generative AI**.

Skills: Python, Streamlit, NLP, API Integration, YouTube Transcript API, Google Generative AI.

Stock Representation Learning with financial Indicators

July 2024 – August 2024

- Built a predictive model using **macro, sector, and micro-financial indicators** to improve stock prediction accuracy by **15%**, enhancing financial forecasting reliability.

Skills: Machine Learning, Time Series Analysis, Financial Data, Deep Learning, Python, TensorFlow/PyTorch.

Personalized Movie recommender System

August 2022 –

October 2022

- Developed a collaborative filtering recommender system that increased user engagement by 12% by providing tailored movie suggestions based on user preferences

Skills: Machine Learning, Recommender Systems, Data Processing, Python, Pandas, Scikit-Learn.

Detection of Phishing Websites using Deep Learning and NLP

January 2022 – April 2022

- Engineered a deep learning model to detect phishing websites, leveraging web scraping and NLP for feature extraction with **95% accuracy**, reducing false positives by **20%**.

Skills: Deep Learning, Cybersecurity, Web Scraping, NLP, Python, TensorFlow/PyTorch, Streamlit

PROFESSIONAL EXPERIENCE

AMAZON HYD-13, Telangana, India

Quality Assurance Engineer

January 2023 - June 2023

- Led the **return creation** and **label generation** processes as part of the returns team, ensuring smooth operations for product returns.
- Automated the on-call report generation** by implementing customized **Tamper monkey scripts** and integrating **Sidekick**, reducing manual effort by **50%** and improving efficiency in daily operations.
- Designed and implemented comprehensive integration test cases**, addressing missing entities in key processes, resulting in a **20% improvement in system reliability** and successful plugin builds.
- Conducted **regression testing** for the cart system, identifying critical issues in the **Merchant Console**, and collaborated with developers to ensure a **15% improvement in user experience** for shoppers.
- Detected **search functionality and email handling errors**, providing actionable insights to the development team, leading to system enhancements and **15% reduction in user-reported issues**.
- Integrated latency data into a dashboard**, enabling performance analysis and optimization, which led to a **10% improvement in overall system performance**.
- Reduced mock order creation time by 75%** through automation using **Cypress** and **Python**, improving accuracy and efficiency in workflow processes such as tracking and fulfillment management.
- Implemented **automated tracking ID generation** and **fulfillment status updates**, significantly enhancing the speed and reliability of order fulfillment processes.

CERTIFICATIONS

IBM Data Science - Coursera

Cypress E2E Testing - Udemy

AI-ML Virtual Internship – AICTE and Edu Skills

Programming essentials in Python - Cisco Networking Academy

Advanced Programming in C – Cisco Networking Academy

KEY SKILLS

- ☐ **Programming Languages:** Python, Java, R, SQL, JavaScript, C++
- ☐ **Machine Learning & AI:** Supervised/Unsupervised Learning, Deep Learning, Natural Language Processing (NLP), Reinforcement Learning, Scikit-Learn, TensorFlow, PyTorch
- ☐ **Data Science Techniques :** Predictive Modeling, Clustering, Time Series Forecasting, Regression Analysis
Data Wrangling, Feature Engineering, Data Preprocessing, Dimensionality Reduction
- ☐ **Data Handling & Querying:** Pandas, NumPy, SQL, PostgreSQL, MongoDB, Graph Databases (Neo4j)
- ☐ **Data Processing & Engineering:** Hadoop, Spark, Data Lakes, ETL Pipelines, Data Cleansing
- ☐ **Cloud Computing:** AWS (EC2, S3), Google Cloud Platform (GCP), Azure (basic familiarity)
- ☐ **Visualization:** Tableau, Power BI, Matplotlib, Seaborn, Plotly
- ☐ **Tools & DevOps:** Git, Docker, Linux, Jira, Agile/Scrum Methodologies
- ☐ **Web & API:** FastAPI, Flask, Django, REST APIs