

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

- Built a tool to transcribe and summarize YouTube videos using the YouTube Transcript API and Google Generative AI. Developed an interactive app with Streamlit for real-time video summarization.

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

Stock Representation Learning with financial Indicators

July 2024 – August 2024

- Implemented a stock representation model by integrating macro, sector, and micro financial indicators to reduce prediction uncertainty.

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

Personalized Movie recommender System

August 2022 –

October 2022

- Built a personalized movie recommender system using machine learning to suggest movies based on user preferences and interests.

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

Detection of Phishing Websites using DeepLearning and NLP

January 2022 – April 2022

- Built a deep learning model to detect phishing websites, leveraging web scraping and NLP for feature extraction.

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

- Designed and developed automation scripts using **Python** and **Tampermonkey**, reducing manual QA efforts by 60% and increasing test coverage.
- Built test pipelines for **RESTful and SOAP API validation**, ensuring robustness of backend services and enabling faster regression testing.
- Created SQL-based test suites and dashboards to validate real-time data ingestion and transformation pipelines, improving data quality insights.
- Participated in Agile sprints, daily stand-ups, and sprint planning sessions, collaborating with developers and product owners to deliver high-quality software.
- Gained exposure to **AWS** services, including EC2 and S3, while working with cloud-hosted test environments.
- Utilized **Git**, **Bitbucket**, and **Jira** to manage code, track issues, and streamline development workflows across cross-functional teams

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, R, SQL, Java, JavaScript, C++
- ☐ **Databases:** MySQL, PostgreSQL, MongoDB
- ☐ **Data Science & Machine Learning:** Scikit-Learn, TensorFlow, PyTorch, Predictive Modeling, Clustering, Forecasting, Statistical Analysis
- ☐ **Data Handling & Querying:** NumPy, Pandas, SQL, MongoDB, Graph Databases (Neo4j – basic familiarity)
- ☐ **Visualization:** Plotly, Matplotlib, Seaborn, Streamlit, Geospatial Mapping
- ☐ **Web & API Tools:** FastAPI, Flask, REST APIs, Django, PyTest
- ☐ **Tools & DevOps:** Git, Docker, Linux Shell Scripting, Jira, Agile/Scrum Methodologies
- ☐ **Core Concepts:** Data Structures & Algorithms, Object-Oriented Programming (OOP), Text Classification, EDA, Data Visualisation, Supervised and Unsupervised Learning, Feature Engineering.
- ☐ **Familiar With:** Large Language Models (LLMs), Testing (PyTest, JUnit), Documentation & Code Review

SOFT SKILLS

- Clean and efficient coding practices
- Excellent problem-solving and debugging
- Team collaboration and Agile mindset
- Strong communication and documentation
- Critical thinking and time management