

VENKATESH SWARNA

Hamden, Connecticut

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Summary

Detail-oriented Graduate student with a 3.61 GPA at the University of New Haven, offering around five years of experience in Data Analysis and project management to apply my knowledge of data analysis, machine learning, and statistical modeling in a challenging Data Science role. I aim to use my skills in Python, SQL to solve real-world problems and contribute to the success of the organization while continuing to learn and grow in the field of Data Science.

Professional Experience

Company | Role : Cognizant | *Programmer Analyst (Oct 2021-Aug 2023)*

Description : Worked with a telecommunication client providing end-to-end ICT solutions for customers. Conducted descriptive data analysis on historical data using Power BI, uncovering key insights and trends to support data-driven decision-making. This project enhanced my expertise in data visualization, business intelligence, and analytical reporting within the telecommunications sector.

Company | Role : Accenture | *Application Development Analyst (Dec 2018-Oct 2021)*

Description : This project intends to provide a solution using SPO+K2 where applications are using for tracking all warehouse products related information in a centralized repository by the Client-side employees. Additionally, employees could submit audit and expense claim reports to their managers, who reviewed and approved them with digital signatures. This project enhanced workflow automation, improved data centralization, and streamlined approval processes for better operational efficiency.

Education

Masters in Data Science
University of New Haven, West Haven, CT
Expected Graduation: May 2025
GPA: 3.57

Bachelor of Technology in Electronics and Communication
Acharya Nagarjuna University, Guntur, India
September 2013 – April 2017
CGPA: 8.54

Projects

Project 1: Stock Market Price Analysis

Developed and implemented a real-time data pipeline leveraging Apache Kafka to stream live stock market data from Google Finance NASDAQ using Beautiful Soup. The data stream was ingested and processed in real time through Apache Kafka and stored in an Amazon S3 bucket. Data preprocessing was conducted using AWS Glue Catalog and Amazon Athena to enable efficient querying. Finally, the Simba ODBC connector was utilized to integrate the processed data with Power BI for dynamic visualization. This project provided in-depth experience in real-time data pipeline processing and analytics.

Project 2: US Accidents Severity Prediction

Designed a machine learning model to estimate accident severity using U.S. historical accident data from Kaggle. The project began with comprehensive data preprocessing and exploratory data analysis (EDA) to uncover key patterns and trends in the data. Afterward, multiple machine learning models were trained and evaluated, with the best-performing model selected for deployment. A lightweight application was built to predict accident severity based on input features. This project not only strengthened my skills in data preprocessing, feature engineering, model selection, and deployment but also deepened my understanding of accident data analysis and the factors that influence road safety.

Project 3: Corrosion Classification

A real-time corrosion classification system was developed using YOLOv5x. Data was collected and labeled with Roboflow, followed by model training and testing. Performance was optimized through hyperparameter tuning, refining parameters such as learning rate, batch size, epochs, image size, momentum, and weight decay for better accuracy. This project provided significant experience in deep learning, object detection, model optimization, data handling, and collaborative machine learning development, successfully applying AI techniques to a practical, real-world problem.

Skills:

Languages	:	Python, Java, HTML, CSS, JavaScript, and XML
Database	:	Oracle, SQL Server
Technology	:	Data science, Machine Learning, NLP, Deep Learning, Power BI, DocuSign, Power Automate, MS Flows
Cloud Services	:	AWS, AZURE Databricks
BPM & Tools	:	Opentext Appworks, K2 5.2, K2 Smart Forms, K2 Workflows, Jira, Service Now, MobaXterm, WinSCP

Certifications and Achievements

[Microsoft Azure Fundamentals \(AZ-900\)](#)

[AWS Certified Data Engineer – Associate \(DEA-C01\)](#)

Star of the Month award for Couple of times during my tenure in Accenture.