Tanak Patel

📞 (203) 410-5437 | ✉ tanak1408@gmail.com | 🌐 Portfolio

Education

BACHELOR'S IN COMPUTER SCIENCE AND ENGINNERING   **Jul 2020 – June 2024**

Gujarat Technological university | GPA: 3.52/4 (CGPA: 8.79/10)

MASTER'S IN DATA SCIENCE   **Aug 2024 – May 2026**

University Of New Haven

Experience

Data Scientist (Internship) | *PGP Glass private Limited*   **Jan 2024 – June 2024**

Digital and Analytics Department

- Acquired hands-on experience in architecture scalable data pipelines using AWS cloud services, ensuring seamless data ingestion, transformation and processing.
- Gained experience working across multiple domains, including supply chain management and human resources management, applying data-driven methodologies to optimize business processes.
- Developed a high-performance predictive model for supply chain optimization, leveraging company's data to predict optimal routes with minimum costs and reduced transit time. Worked with various algorithms like Linear Regression, Gradient Boosting Regressor, Random Forest Regressor to boost the accuracy of my predictions.
- One of my most impactful contributions during this internship was Resume Screening by implementing cutting-edge NLP techniques which includes named entity recognition (NER), TF-IDF, word embeddings such as Word2Vec, Fitz, spacy and NLTK. To add to this, I explored pre-trained large language models to significantly streaming the recruitment process.
- Additionally, I worked on web scraping, utilizing BeautifulSoup to extract, parse, and structure data from various web sources.

AI/ML Programming (Internship) | *Internpe Private Limited*   **Aug 2023 – Oct 2023**

- Gained experience in EDA, feature engineering, feature scaling, data visualization, model building, accuracy evaluation.
- Worked with Simple Imputer, Label Encoder, One Hot Encoder and Standard Scaler.
- Gained expertise in data visualization using various python libraries like matplotlib and seaborn. To add to this, build dynamic and interactive dashboard using PowerBI, Tableau and Excel.
- Developed laptop prize predictor model using very complex data which predicts the prize of the laptop based on its features. Worked on Linear Regression, (Ridge and Lasso), Random Forest Regressor, Gradient Boosting Regressor, Extra Trees Regressor, XGBRegressor and Voting Regressor/Stacking Regressor to boost the accuracy.

Skills & abilities

- Languages: Python, MySQL
- Libraries: Pandas, NumPy, MatplotLib, scikit-learn, TensorFlow, OpenCV
- Technologies: Flask, MS-Excel (with AI commands), Tableau, Power-BI, AWS, Spyder, Jupyter notebook, PyCharm
- Others: Problem Solving skills, statistical analysis, creating interactive reports and dashboards, great communication and interactions skills

Projects

- Diabetes prediction using support vector machine (SVC/SVM).
- Churn Prediction using Decision Trees and Random Forest.
- Data analysis project on finance data, hotel management data, Airbnb data and employee data.

Certifications

- Machine Learning Workshop by KIMO (Aug 2023)
- Data Science Foundations: Data Engineering by LinkedIn Learning (January 2025)
- Python: Working with Rest and Web Data by LinkedIn Learning (January 2025)

Links

Git Hub: https://github.com/tanak14
LinkedIn: https://www.linkedin.com/in/tanak-patel-29313a2a9/
Portfolio: https://tanak14.github.io/portfolio/