PREET MODI

+1 (812) 318-2011 | prmodi@iu.edu | https://www.linkedin.com/in/preetjmodi/ | Portfolio

EDUCATION

Master of Science in Data Science

August 2022 - May 2024

Indiana University Bloomington (Kelley School of Business) | GPA: 3.85/4

Bloomington, Indiana

Relevant Coursework: Data Mining, Applied Algorithms, Software Engineering, Machine Learning

Bachelor of Technology in Information Technology

August 2018 - May 2022

Dharmsinh Desai University | GPA: 4/4 | CSI-President

Gujarat, India

TECHNICAL SKILLS

Languages: Python, SQL, R, Java, C, C++, HTML, CSS, JavaScript, C#, Linux, VBA, React JS

Databases: MySQL, SQL Server, MongoDB, PostgreSQL, NoSQL, AWS, GCP, Azure, Oracle, EC2, T-SQL **Data Science:** NumPy, Pandas, TensorFlow, Keras, Spark, Databricks, Salesforce, Looker, Qlik, Cognos

Statistics: SAS, Predictive Modeling, Regression, Classification, Time Series Analysis, Hypothesis Testing, Stata **Other Tools:** Power BI, CRM, Dynamics 365, SAP, GitHub, Data Warehouse, UI/UX, Artificial Intelligence, GIS

WORK EXPERIENCE

Research Data Scientist

Aug 2022 - Present

Indiana University Bloomington | Power Bl. SQL. IBM Cloud. Docker. Data Visualization

Bloomington, Indiana

- Analyzed data, processed large datasets (>10M records), and created novel visualizations for Carnegie Classification.
- Conducted financial analysis for IU Residential Services, achieving a 15% reduction in housing and dining expenses.
- Designed real-time dashboards, performed data modeling, data reporting using SSRS, and wrote DAX for analysis.
- Served as Associate Instructor for Big Data Management course, conducting labs for 90 students.

Data Science Intern

May 2023 - Sept 2023

Sacoma Specialty Products | SQL, Epicor, Redshift, SAP, MySQL, Quicksight, Alteryx

Edinburgh, Indiana

- Integrated ERP systems with AWS, designed databases, and implemented BAQs to ensure seamless data migration.
- Deployed a scalable data pipeline in Amazon Redshift following ETL processes in Alteryx, optimizing data processing.
- Executed queries in SQL and deployed a Random Forest predictive model to forecast manufacturing orders in ERP.
- Built dashboard to visualize key performance indicators (KPIs), resulted in a 20% increase in supply chain efficiency.

Data Analyst (High-Performance Computing)

December 2021 - May 2022

Institute for Plasma Research (IPR) | Shell Scripting, Dash, Plotly, Hadoop, Hive, Agile

Gujarat, India

- Developed an HPC analytics web-application for cluster having over 10,000 CPU cores and 44 GPU cards.
- Application built using Python and React, following Agile SDLC methodology, and utilized JIRA for project management.
- Automated CI/CD pipelines for app deployment, enhancing system performance and enabling HPC admins to monitor resources, leveraging problem-solving, communication, and cross-functional teamwork for actionable insights.

PROJECTS

Topic Modeling on Credit Card Fraud Detection | XGBoost, Python, MySQL, Selenium, Flask, ChatGPT API

- Utilized NLP tools including spaCy, NLTK, and Selenium for text preprocessing and topic modeling.
- Leveraged DataIQ for efficient data preprocessing; employed XGBoost model for fraud detection with a 90% accuracy.

Kansas City Housing Dashboard | Python, AWS, Power BI, EC2, Jenkins, MVC, Javascript

- Led the development of a Kansas City Housing web platform using AWS, Django and microservices framework
- · Deployed a pipeline on Jenkins for automated deployment and testing of front-end and back-end code

Zillow Data Modeling and House Rate Prediction | Synapse, Python, Azure SQL Database, ArcGIS, SVM

- Optimized database gueries and developed data pipeline in Synapse to analyze and visualize housing market trends.
- Implemented Support Vector Machines (SVM) model for house rate prediction, achieving an accuracy of 85%. Integrated ReactJS for frontend development, incorporating ArcGIS and Google Maps API to enhance user interface (UI).

PUBLICATIONS

Insurance Management with Premium Prediction | DOI &

• International Journal for Research in Applied Science and Engineering Technology (IJRASET)(Impact Factor: 7.429))

An efficient Artificial Neural Network for Coronary Heart Disease Prediction | DOI &

International Journal for Research in Applied Science and Engineering Technology (IJRASET)(Impact Factor: 7.429))