

PREET MODI

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EDUCATION

Master of Science in Data Science

Indiana University Bloomington | **GPA: 3.85/4**

Aug 2022 - May 2024

Bloomington, Indiana

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

Bachelor of Technology in Information Technology

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

Aug 2018 - May 2022

Gujarat, India

TECHNICAL SKILLS

Languages: Python, SQL, R, Java, C, C++, HTML, CSS, JavaScript, 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, Scikit-learn, Tableau, Power BI

Statistics: SAS, Predictive Modeling, Regression, Classification, Time Series Analysis, Hypothesis Testing, Stata

Other Tools: Dynamics 365, SAP, PowerApps, FIS, Github, Endur, UI/UX, Allegro, GIS, ISO, ERCOT

WORK EXPERIENCE

Data Scientist

Sept 2024 - Present

CenterPoint Energy | *Fabric, Power BI, Power Automate, PowerApp/Dataverse, ERCOT*

Houston, TX

- Developed **Power BI** dashboards with **RLS** tracking KPIs including **VaR, ERCOT prices, P&L, and risk exposure**.
- Built custom **Model-driven** and **Canvas Power Apps** integrated with **Fabric Data AI Agents** to streamline internal processes and improve operational efficiency by **20%**.
- Implemented **Medallion architecture** using **Azure Data Factory ETL pipelines** to ingest data from **RMIS, ETRM**, and **LMS** into an **Data Warehouse**
- Developed **AI Builder** predictive models within **Power Apps** and integrated **GPT-4** via **OpenAI API** to enable **intelligent chatbots** and enhance enterprise risk and grid operations decision-making.

Associate Data Scientist

Aug 2022 - Sept 2024

Indiana University Bloomington | *Power BI, SQL, IBM Cloud, Docker, Data Visualization*

Bloomington, Indiana

- Analyzed data, processed large datasets (>10M records) and created novel visualizations for **Carnegie Classification**.
- Built interactive visualizations and analytics for the **American Council on Education**, driving data-informed decisions.
- Served as **Associate Instructor** for **Big Data Management** course, conducting labs on **Azure & GCP** for 90 students.

Data Visualization Specialist Intern

May 2023 - Aug 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.
- Executed queries in **SQL** and deployed a **Random Forest predictive model** to forecast manufacturing orders in ERP.
- Built **Dashboards** to visualize **key performance indicators (KPIs)**, boosting supply chain efficiency by 20%.

PROJECTS

High Energy Incident Forecasting and Safety PowerApp | *Python, Power Apps, Dataverse, BigQuery, Scikit-learn*

- Engineered a Python pipeline to predict high-risk energy incidents using weather and safety data; trained **Random Forest** and **Logistic Regression**, achieving 82% F1-score.
- Deployed model outputs via **Azure Fabric** and integrated predictions into a **Safety PowerApps**, leveraging **Power BI** for real-time reporting and analytics. Also, automating workflows and alerts with **Power Automate**

GenAI-Powered Commodity-VaR Insights App | *Python, Pandas, Risk Management, Predictive Modelling*

- Processed energy trading and ERCOT data using **Python**, computing returns, volatilities, correlations for risk analysis.
- Developed **Parametric, Historical, and Monte Carlo VaR** models, cutting compute time 30% for real-time portfolio risk.
- Built a Python pipeline using **BeautifulSoup, Selenium, and Pandas** to scrape and transform market data, generating real-time summaries and scenario insights visualized in **Dash & Streamlit**.

CERTIFICATIONS

- IBM **Data Science** Professional
- Microsoft **Power BI** Data Analyst
- **ETRM** Energy Markets, Trading, Risk and System
- HackerRank **SQL** 5-Star Coder