# Preet Modi

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# EDUCATION

# Indiana University Bloomington

Bloomington, IN

Masters in Data Science; GPA: 3.82

Aug 2022 - May 2024

Courses: Advanced Database Concepts, Big Data Management, Introduction to Statistics, Algorithms, Computer Science,

Data Mining, Cloud Computing, Machine Learning, Software Engineering, Predictive Analytics (Kelley School of Business)

# Dharmsinh Desai University

Gujarat, India

Bachelor of Information Technology; GPA: 3.7 (8.29/10.0)

Aug 2018 - May 2022

## SKILLS SUMMARY

- Languages: Python, R, SQL, Java, C, C++, HTML, CSS, JavaScript, C#, Linux, ReactJS, Node JS
- Database & Tools: SQL Server, PostgreSQL, Hive, MongoDB, Tableau, PowerBI, Airflow, Kafka, SAP, SAS, TensorFlow, Keras, Excel, VS Code, AWS, GCP, PySpark, Databricks, Snowflake, Github, Azure, EC2, MATLAB
- Data Science: ETL, BI, Predictive Modeling, Regression, Classification Trees, Time Series Analysis, Data Warehousing, Natural Language Processing, Hypothesis Testing, Artificial Intelligence, Statistical Analysis, Data Management

#### EXPERIENCE

#### Graduate Research & Teaching Assistant

August 2023 - Current

Bloomington, IN

Indiana University

- SAS, SQL, MS Power Tools, Data Visualization, Carnegie Classification: Collaborating with Dr. Victor Borden,
  I engaged in data metric analysis, processing datasets of over 1 million records, and developed 10 novel interactive
  visualizations for Carnegie Classification.
- Python, Flask, Kubernetes, NoSQL, Cloud Computing, Big Query, Distributed Computing, Docker: As a Graduate Teaching Assistant for INFO-I 535 Management, Access, And Use of Big And Complex Data, I crafted 13 assignments, graded for 80 students, achieving 95% completion and boosting student engagement by 30%.

# Data Science Intern

May 2023 - August 2023

Sacoma Specialty Products, LLC

Edinburgh, IN

- SQL, Epicor, SAP, Excel: Integrated Epicor and SAP systems with AWS services, utilizing custom Business Activity Queries (BAQs), resulting in a 20% improvement in supply chain efficiency.
- Amazon Redshift, QuickSight, HPC: Created a centralized data lake, streamlining data extraction, transformation, and loading (ETL) processes, reducing data processing time by 40% and enhancing data accessibility.

# Data Analyst

Oct 2022 - May 2023

Indiana University

Bloomington, IN

 Power BI, Advanced Excel, Dash, R, Tableau & DAX: Worked with Residential Program and Services to conduct financial data analysis for housing and dining facilities, utilizing DAX (Data Analysis Expressions) for tailored computations, leading to a 15% decrease in operational expenses and a 20% uptick in revenue.

### Academic Projects

- HPC Analytics Dashboard Application Development: Engineered an application for High Performance Computing (HPC) with a theoretical peak performance of 1 Petaflop (PF) and an infrastructure comprising over 10,000 CPU cores and 44 GPU cards. Integrated Oracle RDMS for data storage and management. Leveraged Dash, Matplotlib, and Seaborn Python libraries and ReactJS for data visualization. This project entailed implementing Software Development Life Cycle methods such as Agile and Scrum, utilizing Jira for project management. Harnessing problem-solving, communication abilities, and collaborative teamwork, the analysis delivered actionable business insights.(Nov 2023)
- Exploratory Data Analysis for Bureau of Transportation Statistics Flight Performance: Implemented a robust data pipeline using Python and ETL tools i.e Alteryx, devised a storage model in a MySQL server, and executed an algorithm using a parallel programming framework, Hadoop, resulting in a 30% reduction in data processing time. Conducted statistical analysis using R and Stata. Proposed and implemented a cleaning improvement solution, explored a big data cloud platform environment, and developed a reliable data management plan. Leveraged the K-Means Clustering algorithm to enhance data analysis accuracy, achieving an impressive 90% precision rate.(May 2023)
- Epicor-Driven Data Enlightenment: Transforming Business Intelligence: Implemented a data-driven dashboard to enhance operational efficiency and decision-making. Integrated data from diverse sources and conducted analyses to extract insights, refining data manipulation skills. Utilized Amazon Redshift for data pipelines and Excel Macros for streamlined processing. Developed interactive dashboards using Power BI, Tableau & Quicksight, and in ERP systems like Epicor and SAP. Provided stakeholders with real-time visibility into key indicators, facilitating informed decisions. Wrote Business Activity Queries (BAQ) in Epicor and generated MRP dashboards, achieving a 40% increase in efficiency. (Aug 2023)

## Publications

- "Insurance Management with Premium Prediction", Volume 9, Issue XII, International Journal for Research in Applied Science and Engineering Technology (IJRASET) Page No: 1222-1238, ISSN: 2321-9653 (Impact Factor: 7.429): DOI: https://doi.org/10.22214/ijraset.2021.39416
- "An efficient Artificial Neural Network for Coronary Heart Disease Prediction", Volume 9, Issue XII, International Journal for Research in Applied Science and Engineering Technology (IJRASET) Page No: 1474-1483, ISSN: 2321-9653 (Impact Factor: 7.429): DOI: https://doi.org/10.22214/ijraset.2021.39559