

PADMESH RAJARAM NAIK

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EDUCATION

Worcester Polytechnic Institute (WPI), Worcester, MA

Master of Science in Computer Science, GPA: 3.75/4.0

August 2022 - May 2024

University of Mumbai, Mumbai, India

Bachelor's in Computer Engineering; CGPI: 8.16/10

August 2016 - October 2020

Skills

Languages and Databases: Python, R, Javascript, C, C++, HTML, CSS3, TypeScript, Bootstrap, MongoDB, SQL, PostgreSQL

Frameworks and Tools: Angular, React, Node.js, Django, Express.js, TensorFlow, PyTorch, Scikit-learn, Numpy, Pandas, Jupyter Notebook, Docker, Github, Azure, Tableau, Oracle

Certification: Azure Fundamentals (AZ- 900) , Azure Data Scientist (DP-100) , Google Analytics Certification

PROFESSIONAL EXPERIENCE:

Software Developer Intern

Jan 2024 –Present

Clearly Energy, Severna Park, MD

- Deploying the Building Energy Analysis Manager(BEAM) website using Angular.js and Django, focusing on scalable architecture.
- Implementing advanced geospatial data visualization techniques for dynamic mapping and search functionalities to enhance user interaction with building's energy metrics.
- Integrating advanced filtering options, such as year range, building floor area, and energy performance metrics, allowing users to refine their data analysis and visualization for more targeted insights into building's energy efficiency.

Software Engineer Intern

May 2023 - August 2023

Building Assure PBC, Concord, MA

- Led the design and development of a rule-based decision model, streamlining real-time alerts and responses to dynamic data inputs.
- Enhanced system performance by 25% by implementing a Python and Pandas-based data pipeline, facilitating seamless data integration between MongoDB and decision models.

Graduate Assistant

January 2023 - January 2024

Worcester Polytechnic Institute, Worcester, MA

- Collaborated on a professor-guided research initiative to develop and implement advanced Python pipelines, optimizing data extraction and deepening insights from diverse data sources.
- Conducted doubt-solving lectures to help students with coursework and also assist the professor with grading and evaluating student assignments.

Data Scientist

September 2020 - August 2022

Tata Consultancy Services, Mumbai, India

- Performed exploratory data analysis on 10 years of purchasing data using Tableau, identified key predictors of customer behavior and recommended changes to the pricing strategy, resulting in a 10% increase in revenue.
- Enhanced model accuracy by 15% by incorporating additional features into the regression models, enabling more accurate delivery time predictions and improving overall operational efficiency.

PROJECTS:

Consignment Shop

- Developed a responsive e-commerce web application using React, incorporating features such as user registration, inventory management, and real-time pricing updates, enhancing user experience and operational efficiency.
- Established a secure SQL database schema with automated primary foreign key constraints for optimized data retrieval, and integrated Azure Lambda functions for backend processing in a serverless architecture, ensuring high availability and performance.

Bookstore Web Application

- Developed a online bookstore platform, featuring advanced search capabilities, real-time book rating updates, and secure user registration and login functionalities.
- Implemented a MySQL backend system for the bookstore to manage inventory, process transactions and generate sales reports.