

# Monisha Mohan

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## Education

### Northeastern University

Expected May 2025

Master Of Science in **Computer Software Engineering**

Boston, MA

**Coursework:** Application Engineering Development, Web design/User Experience, Database Management & Database Design, Programming Structures and Algorithms, Data Science Methods & Engineering, Object Oriented Design, Applications of Generative AI, Advance Big-Data applications

### Ramaiah Institute Of Technology

June 2021

Bachelor Of Engineering in Electronics and Telecommunications

Bangalore, Karnataka

**Relevant Coursework:** IoT, Operating Systems, Computer Networks, Embedded Systems, Control Systems, Web Design

**Publication:** RFID Based Library Management System, IEEE International Conference

[Link](#)

## Technical Skills

**Languages:** Python, Java, R, C, C++, SQL, JavaScript, HTML, CSS

**Frameworks:** ReactJS, NodeJS, ExpressJSs, TypeScript, Redux, Flask, Apache Spark, Kafka, Hadoop, Spring Boot

**Tools/Technologies:** Git, REST API, Docker, Kubernetes, Snowflake, MLFlow, MATLAB, Postman, Linux, PyCharm, IntelliJ, Eclipse, SQL Server, MySQL, NoSQL, PostgreSQL, Oracle, Hive, Jenkins, Power BI, Tableau, Azure DevOps, UI/UX, Agile, Alteryx, Excel

**Cloud Technologies:** Microsoft Azure, AWS, GCP

**Libraries:** Numpy, Pandas, Matplotlib, Seaborn, PyTorch, TensorFlow, Scikit-Learn, OpenCV, Keras, Scrapy

## Experience

### Ernst and Young

October 2021 - August 2023

Associate Software Engineer

Bengaluru, India

- Optimized data structures through data **modeling initiatives** to enhance analytics and decision-making.
- Leveraged Microsoft Azure Technologies, including **Data Factory, Databricks, Synapse Analytics, SSMS, Hive Meta Store, and PowerBI**, to facilitate real-time auditing, develop dashboards, and deliver actionable reports to business stakeholders
- Employed **PySpark** scripting to fine-tune and enhance data from vendor sources, improving data quality and operational efficiency, and boosting **productivity by 20%**
- Incorporated CI/CD pipelines using Microsoft Azure Data Factory to automate data flow processes, **achieving an 80% increase in operational efficiency**

## Projects

### Trouvaille - Travel Website | MERN Stack, HTML, CSS, JavaScript

[Link](#) | December 2023

- Developed a web application for a travel website with features such as review management, accommodation booking, Blogs, and booking functionalities
- Designed and maintained **MongoDB database** for efficient storage and retrieval of travel-related information
- Created responsive **front-end** interfaces using **HTML, CSS, React and JavaScript** to enhance the user experience
- Implemented **REST APIs** using **Node.js** and **Express** to handle user reviews, accommodation data, and bookings on the **back-end**

### Trading Platform | Spring Boot, React, Tailwind CSS, MySQL, APIs

[Link](#) | December 2024

- Developed a trading platform with features like **user authentication, cryptocurrency management, wallet operations, and trading functionality**
- Integrated **Spring Boot backend** with **MySQL database** and secured the application using **Spring Security** with 2FA and OTP verification
- Implemented a **React-based front-end** with **Tailwind CSS** and integrated APIs like **CoinGecko, Gemini, Razorpay, and Stripe** for real-time cryptocurrency data and payment processing

### Algerian Forest Fire Prediction | NumPy, Pandas, Seaborn, Matplotlib, Scikit-learn

[Link](#) | December 2024

- Performed **EDA** using **Seaborn** and **Matplotlib** to uncover patterns, correlations, and influential features.
- Applied **Feature Engineering**, including standardization and removal of correlated features, to enhance model accuracy and generalization.
- Trained and evaluated **Linear, Ridge, Lasso, and ElasticNet** models using **Scikit-learn**, achieving **R-squared scores of 87% to 98.4%**.