# JAYANTH SAI KARRI

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## EDUCATION

**Northeastern University**, Boston, MA
Master of Science in Data Analytics Engineering (GPA: 3.8)                                        May 2024
Relevant Courses: Machine Learning, Foundations of Data Analytics, Data Management for Analytics, Prob and Stats, Computation and Visualization, Data Mining, Deterministic Operational Research.

## SKILLS

**Programming Languages:** Python, Java, SQL, NoSQL Databases, R, HTML5, CSS3
**Frameworks/Libraries:** React.js, PrimeReact, TensorFlow Machine Learning, NumPy Scientific Computing, Pandas, PyTorch, Matplotlib Data Visualization
**Data Visualization & Analysis Tools:** Figma, Tableau, Power BI, Datawrapper, Microsoft Excel
**Development Environments & Tools:** Visual Studio, GitHub, Google Colab, Jupyter Notebook
**Database Systems:** MongoDB NoSQL Database, PostgreSQL Relational Database
**Microsoft Office:** Word, PowerPoint, Outlook
**Soft Skills:** Analytical Abilities, Teamwork, Collaboration, Creativity, Leadership.

## EXPERIENCE

**SYNCRONIX GROUP, Texas**                                                              May 2023 - Present
**Software Engineer**
- Engineered a comprehensive React component library leveraging PrimeReact and Angular, improving development workflow and standardizing interfaces across company projects.
- Spearheaded the integration initiative, delivering reusable components for seamless adoption by multiple teams, and promoting standardized application architecture.
- Contributed to a collaborative school management system project, enhancing digital communication between students, educators, and administrative staff.

**AWS CLOUD INTERNSHIP (REMOTE)**
**Student Intern**                                                                     Oct 2021 - Dec 2021
- Engaged in an AWS cloud internship program through AWS academy and AICTE, focused on practical AWS cloud services, including system deployment and management.
- Trained on AWS cloud skills and collaborated on cloud-based projects.
- Successfully designed and developed a capstone project, showcasing newly acquired proficiency in cloud architecture and cloud management services.

## CERTIFICATIONS

- **AWS Academy Graduate** - AWS Academy Cloud Foundations Issued by Amazon Web Services Training and Certification
- **Cisco Networking Essentials** - Programming Essentials in Python
- **Coursera**- Getting Started with Python
- **Coursera**- Object Oriented Programming in Java

## PROJECTS

**OPTIMIZATION OF WAVE ENERGY FARMS USING REGRESSION MODEL | PYTHON**
Northeastern University                                                                Sep 2023 - Dec 2023
- Led efforts to enhance power generation efficiency in extensive marine energy systems, focusing on overcoming the intricate dynamics between water current energy devices.
- Developed prediction models, including linear regression, logistic regression, neural networks using TensorFlow, and a multi-layer perceptron from scratch, focusing on predicting total energy production based on farm configurations.
- Conducted comprehensive data analysis on a dataset of 54,000 configurations, applying feature engineering, model development, and optimization strategies to improve prediction accuracy and farm performance.
- Achieved best performance with the neural network model, demonstrating superior predictive accuracy in estimating farm energy output, with insights contributing to the field of renewable energy optimization.

**BANKING AND FINANCIAL SERVICES MANAGEMENT SYSTEM | SQL**
Northeastern University                                                                Jan 2023 – May 2023
- Developed conceptual data models and mapped to relational database with over 10 entities.
- Implemented business cases through MySQL and NoSQL databases to understand banking and financial database management systems.
- Connected MySQL through Python IDE to perform analytics and gain insights on transaction, loan and other service trends.