

# Jaswanth Mada

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## EDUCATION

### Purdue University Northwest - Master's in Computer Science - 3.6/4.0

Indiana, USA

Coursework: Machine Learning, BigData, Software Design

August 2023 – May 2025

### JNTU, Kakinada - Bachelor's in Computer Science - 3.5/4.0

Andhra Pradesh, India

Coursework: Operating Systems, Computer Architecture, Data Structures and Algorithms

August 2019 – May 2023

## EXPERIENCE

### Software Engineer Intern

May 2023 – July 2023

Keerthi Bizplus4U IT Services Private Limited

Hyderabad, India

- Developed the website's backend using the **MVC architecture**, resulting in improved code organization and streamlined maintenance processes; reduced bug fixing time by **40%** and increased development efficiency.
- Implemented **REST APIs** using **Express Js**, applying modular design and techniques resulting in a **40%** increase in user data retrieval efficiency and reducing response time by **50ms**.
- Played a key role in troubleshooting and resolving bugs, enhancing site stability and reliability. Collaborated with product and marketing teams to redesign the User Interface (UI), boosting retention and user experience by **40%**.

## PROJECTS

### ECartify | Amazon S3, Amazon Ec2, Route 53, ReactJS, NodeJS, MongoDB, ExpressJS

[Github](#) [Live Link](#)

- Designed a high-performance **Full-Stack Web Application** using **Node.js** for efficient **REST APIs** and **React.js** for a seamless Single Page Application Front-end, reducing page load time by **50%**.
- Implemented a highly secure user authentication and authorization system using **JSON Web Token (JWT)** to safeguard user accounts reducing the risk of unauthorized access and data breaches.
- Integrated secure and user-friendly **payment gateways**, providing customers with a seamless checkout process.
- Hosted the frontend assets on **Amazon S3** and deployed the backend server on **Amazon EC2** for efficient scalability and management, ensuring reliable performance. The domain is managed using **Amazon Route 53**.

### Product Recommendation System | Apache Spark, Apache Hadoop, Distributed Systems

[Github](#)

- Designed and implemented a scalable **product recommendation system** using **Apache Spark** and **Hadoop**, leveraging the ALS algorithm for collaborative filtering.
- Achieved exceptional model performance, evidenced by a low **Root Mean Squared Error (RMSE) of 0.832** on the test set, showcasing the accuracy and effectiveness of the recommendation system.
- Successfully handled large-scale datasets stored in HDFS, demonstrating expertise in **Distributed Computing** and **Big Data Technologies**.

### Email Spam Classifier | Python, Natural Language Processing, Machine Learning

[Github](#)

- Developed a robust **email spam classifier** for distinguishing between legitimate (ham) and spam messages.
- Conducted comprehensive data pre-processing, including handling missing values, removing duplicates, and performing text pre-processing tasks such as tokenization, stemming, and elimination of Stopwords.
- Built and evaluated **machine learning models**, including Naive Bayes, Support Vector Machine, and Random Forest, to predict Spam Emails.
- Achieved a high accuracy rate of **98%** and precision rate of **99%**, demonstrating the classifier's effectiveness in distinguishing spam emails.

## SKILLS

- Programming Languages:** C++, C, Java, Javascript, Typescript, Python, HTML5/CSS
- Libraries/Frameworks:** Numpy, Pandas, .NET, React Js, Node Js, Apache Spark(PySpark), Angular
- Databases:** MongoDB, PostgreSQL, MySQL, SQL Server
- Developer Tools:** Data Structures, Algorithms, Linux/Unix, Docker, Git, API Development
- Cloud Services:** Amazon Web Services (AWS)

## ACHIEVEMENTS

- Secured an all India rank of **1700** out of **90,000** participants in the Innovative India Coding Championship.
- Solved more than **500+ coding problems** across Coding platforms. [Leetcode](#)
- Secured a rank of **1119 out of 11000** participants in Acciojob Coding Contest by Acciowars.