Navya Sravani Jammalamadaka

GHC'23 | Milpitas, CA | 6462671665 | nsj9072@nyu.edu | LinkedIn | GitHub | Portfolio

EDUCATION

New York University, New York, NY, USA   **Sep 2021 – May 2023**
Master of Science, Computer Engineering   GPA-3.83/4.0
Courses: Big Data, Machine Learning, Deep Learning, Database systems, Data Visualization, Computer Systems Architecture

K L University, Guntur, AP, INDIA   **July 2016 - May 2020**
Bachelor of Technology, Electronics and Communications Engineering   GPA-9.48/10.0
Courses: Algorithms, Object Oriented Programming, C Programming, JAVA, Data Structures, Artificial Intelligence

TECHNICAL SKILLS

Languages: Python, Java, C, C#, C++, R, Go, Data Structures, Algorithms, Scala, Rust

Data & ML Frameworks: Hadoop, Spark, Hive, Airflow, PyTorch, Keras, Pandas, NumPy, SciPy, TensorFlow, Power BI, Tableau

Web Technologies: React, Nodejs, Typescript, HTML, CSS, PostgreSQL, MySQL, NoSQL, MongoDB, Oracle DB, DynamoDB

Cloud & Containerization Platforms: Amazon Web Services, GCP, Microsoft Azure, Docker, Kubernetes, Google BigQuery

WORK EXPERIENCE

Data Science Virtual Intern | BCG X | Remote, USA   **Aug 2023 – Present**
- **Data Analysis:** Analyzed churn data for PowerCo's SME segment, revealing **9.7% churn across 14,606 customers**.
- **Feature Engineering:** Engineered features using Pandas, NumPy, Seaborn, and Matplotlib for predictive modeling, showcasing that yearly consumption, forecasted consumption, and net margin are primary churn drivers.
- **Data-Driven Insights**: **Recommended a targeted 20% discount strategy** for high-churn probability, high-value customers, enhancing retention efforts.

Web Applications Engineer Intern | TCR Inc., | Weston, CT, USA   **July 2023 – Present**
- **Front-end Development**: Led the development of engaging front-end website designs, leading to an impressive **10% increase in user engagement** with TCR's services, offerings, and website traffic.
- **Bug Resolution**: Played a pivotal role in the software development process by overseeing code reviews and testing protocols for back-end functionalities and achieved an **average bug resolution time of under 24 hours**.
- **Identity Access Management**: Directed the development of cutting-edge React applications while implementing robust integration with **auth0 authentication**, protecting site security, and introducing accurate access controls.

Research Data Scientist, Teaching Assistant | New York University | New York, NY, USA   **Sep 2021- May 2023**
- **Data Scientist**: Automated Inventory Management System for NYU Library using data science techniques and decision trees, achieving a **95% accuracy** in inventory prediction, and **boosting students' book engagement rate by 10%.**
- **Database Systems TA**: Provided real-time assistance to students by resolving complex SQL queries, achieving a **90% success rate** in completing assignments. Collaborated with Professor. Amit Patel to design database solutions.

Data Engineer | General Trading Company | Guntur, AP, INDIA   **Aug 2020- Aug 2021**
- **Data Pipelines**: Enhanced **data processing efficiency by 20%,** streamlined ETL pipelines and parallel processing.
- **Data Modelling**: Achieved a **30% reduction in data retrieval time** for crucial financial reports through the implementation of finely tuned data models and targeted indexing strategies.
- **Data Visualization**: Elevated **stakeholder satisfaction among finance teams by 25%,** evidenced by their positive feedback, due to the creation of impactful and user-friendly data visualizations using Tableau.
- **Data Security**: Ensured a flawless **100% compliance score during annual audits** by meticulously showcasing the company's strict adherence to stringent data security and privacy standards.

ACADEMIC PROJECTS

Big Data Driven Health Insurance Analysis   **Feb 2023 - May 2023**
- Used **PySpark, SparkML, SparkSQL, and Plotly** for predictive analysis on health insurance dataset of 10M records. Enhanced plan rates and benefits for diverse demographics through insightful data-driven decisions and recommendations.
- Built **a linear regression recommendation** system by intricate analysis of age and tobacco consumption metrics, optimizing personalized recommendations and fostering precise decision-making with an **accuracy of 94%.**

Impact of COVID-19 on Shipping Industry   **Oct 2022 - Dec 2022**
- Crafted dynamic **Tableau Dashboards with 15+ visualizations**, analyzing COVID-19's effect on commodities, shipping, sales, and markets. Transformed intricate data into actionable insights and strategic investment advice, enabling effective navigation through pandemic-driven market shifts, optimizing shipping operations, and enhancing business resilience**.**

Deep Learning based Lane Detection for Autonomous Vehicles   **Oct 2022 - Dec 2022**
- Utilized **Convolutional Neural Networks** (CNNs) to extract lane features and Semantic Segmentation to classify road regions, achieving an **accuracy of 92%** on the OpenLane Dataset.
- Employed **OpenCV** for pre-processing and post-processing, enhancing lane detection. Achieved an average **IoU of 0.85**, showcasing accurate lane localization across diverse road conditions.

YouTube Data Insights and Analytics Framework   **Feb 2022 - Apr 2022**
- Utilized **AWS** technologies to build a Data Pipeline using **S3, Glue, Redshift, and Athena** over **200K+** data points to construct an end-to-end video analytics framework. Ensured uninterrupted operations and delivered actionable insights.
- Constructed impactful executive **dashboards utilizing Power BI**, enabling real-time insights on key performance metrics like views, likes, and demographics which facilitated a **40% enhancement in informed decision-making**.

CERTIFICATIONS

- **Certifications (**Coursera**):** Machine Learning from Stanford University, Google Data Analytics, Data Science with IBM.