MANASVINI NITTALA

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EDUCATION

RUTGERS UNIVERSITY New Brunswick, NJ
Master of Science in Computer Science Aug 2022 - May 2024
Cumulative GPA: 3.91/4.0

CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY Hyderabad, India
Bachelor of Engineering in Electronics and Communication Jul 2018 - Jul 2022
Cumulative GPA: 8.61 / 10.0
Activities: Makers of India (President), Robotics and Innovation Club (Executive Board), IEEE Society (Member)

SKILLS

Programming Languages: Python; C; Java; MATLAB;Scala
Full Stack Web Development: HTML; CSS; JavaScript; Node.js; Express; JavaScript (React); Jasmine; MongoDB; REST API; Stripe
State Management, Deployment, and Version Control: Redux, Heroku, Git
Big Data & Cloud: AWS (Glue, Athena, S3, Lambda)
Data Processing, Analysis and Visualization: Pandas; NumPy; SciPy; PySpark; Hive; MySQL; MS Excel; Matplotlib; Seaborn
Tools and Platforms: GitHub; VS Code; Google Colab; Firebase; Jupyter Notebook; Spyder; Pycharm; IntelliJ IDEA
Additional: TensorFlow; PyTorch; SkLearn; Tkinter; Keras;Tableau;Plotly

WORK EXPERIENCE

RUTGERS UNIVERSITY New Brunswick, NJ
Teaching Assistant Sep 2022 – Jan 2023
- Catalyzed a deeper understanding of Discrete Structures as a Teaching Assistant at Rutgers University, achieving an 80% satisfaction rate through engaging instruction and innovative approaches
- Engineered an attendance tracking system that utilizes student IP addresses to ensure the authenticity of attendance records, resulting in a 30% reduction in instances of falsified attendance records

VODAFONE IDEA LTD. Hyderabad, India
SNOC CHM Intern Mar 2022 - Jul 2022
- Engineered solutions resulting in a remarkable 35% reduction in downtime and a 50% enhancement in network performance during Base Station Controller decommissioning in Tamil Nadu, India
- Managed the database infrastructure, ensuring data integrity and optimizing database performance. Applied advanced techniques to enhance space efficiency, achieving a 30% reduction in server space consumption
- Collaborated with cross-functional teams, sharing valuable insights that contributed to the overall optimization of network systems

NATIONAL INSTRUMENTS AND COGNIBOT Hyderabad, India
Data Analyst Intern May 2020 - Jun 2020
- Pioneered a data-driven approach using **Pandas**, **Seaborn**, and **Sklearn** to create a predictive model for in-depth analysis of banking sector client subscriptions
- Developed a hybrid model combining **Logistic regression** and **decision trees**, achieving an impressive 85% accuracy in forecasting term deposit subscriptions
- Empowered financial institutions with actionable insights, facilitating data-driven decision-making and refined marketing strategies for precise client targeting

PROJECTS

GOODS.COM
- Pioneered development and launch of Goods.com, an e-commerce powerhouse utilizing a cutting-edge tech stack including **NodeJS, HTML, CSS, Jasmine, MySQL**, and **REST API**
- Revolutionized the customer experience by introducing a two-factor authentication system, enhancing the platform with a diverse product catalog, streamlined order processing, and real-time tracking features

CONNECTHUB.COM
- Executed the complete development of a comprehensive social network application, utilizing a diverse tech stack, including **Node.js**, **Express**, **React**, **Redux**, and **MongoDB**. Acquired hands-on experience in deploying applications to **Heroku** using **Git**
- Applied **React Hooks**, **Async/Await** to integrate **React** with the **Express** backend seamlessly
- Developed a robust build script, ensuring the secure handling of sensitive keys throughout the deployment process

BANK PROSPECTS USING DATA ENGINEERING
- Pioneered a serverless Big Data solution for "Bank Prospects" using **AWS Glue**, **Athena**, and **S3** to streamline data processing, resulting in a 40% improvement in data processing efficiency
- Demonstrated expertise in data engineering by utilizing **Spark Scala**, **PySpark**, **Hive**, and **Python** to analyze data sets, facilitating a 35% increase in informed decision-making
- Applied best coding practices, including logging, error handling, and configuration management, using **Scala**, **Maven**, and **IntelliJ** to create robust and reliable data applications

BAYMAX - A DISEASE PREDICTION AND DRUG RECOMMENDATION SYSTEM
- Led the disease prediction model development and integration in BayMax Django, utilizing advanced algorithms (**MLP**, **Random Forests**, **Decision Trees**, **Naive Bayes**), achieving 90% accuracy for enhanced patient dashboard insights
- Directed Drug Name Recommendation Model implementation with **Random forests**, achieving 85% accuracy, transforming Doctor Dashboard with seamless appointment requests