# 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

- Designed and implemented solutions that reduced downtime by 35% and improved network performance by 50% 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
- Optimized the order processing and tracking procedures using **Stripe.com API**

**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

**MULTI DISEASE PREDICTION SYSTEM - RESEARCH PROJECT**

- Engineered a robust disease prediction system with a 90% accuracy rate, utilizing **K-Nearest Neighbors (KNN)**, **Support Vector Machines (SVM),** and **Neural Networks**, and designed an intuitive **Streamlit** web application for easy model access
- Incorporated UCI Machine Learning Repository datasets to train and validate disease prediction models, ensuring reliable results