# RAGAVI POBBATHI ASHOK

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## OBJECTIVE

A Data Enthusiast currently pursuing a Master of Science in Advanced Data Analytics, with a strong foundation in data analysis, machine learning, and statistical modeling. Seeking to leverage my academic background and professional experience in a challenging role that values analytical expertise and a proactive approach.

## EDUCATION

**University of North Texas**                                                                                                        *Dallas, TX*
*Master of Science in Advance Data Analytics.*                                                        *June 2023- May 2025*
**Relevant Coursework-** Data Analytics, Harvesting, Storing and Retrieving Data, Discovery and Learning with Big Data, Large Data Visualization, Recurrent Neural Networks for Sequence Data, and Deep Learning with Big Data.

**University of Auckland**                                                                                    *Auckland, New Zealand*
*Master of Engineering in Electrical and Electronics.*                                                                    *2018-2019*

**BNMIT Institute of Technology**                                                                                    *Bengaluru, India*
*Bachelor in Telecommunication Engineering.*                                                                                    *2014-2017*

## CERTIFICATIONS

Google Data Analytics Professional Certificate

## SKILLS

- **Data Analysis & Visualization:** | Python | Java | R | Tableau | Power BI | Excel |
- **Predictive Modeling and Statistical Modeling:** | Decision Trees | Logistic Regression | ANOVA | Time Series Analysis |
- **Databases:** | MySQL | PostgreSQL | MongoDB | Redis | Cassandra | InfluxDB |
- **Big Data Technologies:** | Spark | Hive | Hadoop | PySpark | Splunk | AirFlow | Data pipelines |
- **Machine Learning Models:** | Reinforcement Learning | Personalization & Recommender Systems | A/B Testing |
- **Machine Learning libraries:** | TensorFlow | Sklearn | Keras | Pandas | Matplotlib | NumPy | Spark MLlib | OpenCV | Bokeh
- **Cloud & Deployment:** | AWS | Azure | CI/CD (Jenkins) | Docker | Git | GitHub | Kubernetes |
- **Scripting:** | Advanced Python scripting for data cleaning, processing and transformation |

## PROFESSIONAL EXPERIENCE

**Fisher and Paykel Appliances: Product Development Analyst Engineer**          *Auckland, New Zealand***, Jan 2022 - Nov 2022**

- Worked on customer behavior data to enhance engagement strategies by adjusting online market strategy, **resulting in a 20% increase in user interaction and a 12% growth in sales.**
- Used clustering algorithms to analyze appliance sensor data, identifying a **critical component defect**. This led to a **30% reduction in appliance failure rates**.
- Utilized **sensor data from smart appliances** with machine learning algorithms (Random Forest and Gradient Boosting) to improve product efficiency and maintenance, **achieving a 15% increase in performance**.
- Applied Regression Analysis and **Time Series Forecasting to smart appliance energy data**, **leading to a 20% enhancement** in energy efficiency.
- **Developed and integrated data pipelines** from different data sources and **dashboards for real-time** operational monitoring.

**Invenco Group Ltd – Cloud Engineer**                                                        *Auckland, New Zealand, Dec 2019 - Dec 2021*

- Successfully led the adoption and implementation of **Agile methodologies**, **with a 50% increase** in adoption across the team.
- Developed **REST APIs** to fetch, manage, and maintain images, data from vendors based on business requirements.
- Successfully **deployed Amazon S3 buckets** for **scalable and secure image storage** solutions.
- Created **Jenkins pipelines** to handle deployments.
- **Efficiently created** and **managed Amazon EC2 instances** for optimal performance and **cost-effectiveness.**

## PROJECTS

- **Airline Data Analysis:** Analyzed March 2023 airline data to **guide airline performance** and **customer satisfaction** | Kaggle
- **A/B Testing Case Study**: Crafted and prototyped a new product **recommendation algorithm to boost e-commerce sales** | Kaggle
- **Electric Vehicle Adoption in Washington State:** Utilized **Random Forest, Logistic Regression, and Naive Bayes** to analyze and predict electric vehicle adoption in Washington with **99.97% accuracy** | GitHub
- **Starbucks Case Study**: Employed segmentation and **predictive modeling for business strategy** | Kaggle
- **Amazon Customer Behavior Analysis**: Conducted **sentiment modeling** to propose **growth strategies** | Kaggle
- **DC Motor Speed Control**: Utilized **Artificial Neural Network** for Speed Control | GitHub

## LEADERSHIP EXPERIENCE

- Served as the Graduate Buddy program leader for two years (2018 and 2019) at the University of Auckland.
- An active member of the Women in Computing club at UNT (2023)