

ANBU EZHILMATHI NAMBI

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SUMMARY

Master's graduate in Data Analytics from George Washington University with hands-on experience building end-to-end machine learning pipelines, statistical models, and data dashboards. Strong in Python, SQL, and data visualization. Passionate about using data to solve real-world business problems.

EDUCATION

The George Washington University, School of Engineering & Applied Science
Master of Science in Data Analytics

Washington, DC
May 2025

- *Relevant Coursework:* Design and Analysis of Algorithms, Advanced Database Management, Statistical Analysis and Modeling, Machine Learning, Natural Language Understanding, Data Visualization.

Sri Ramachandra Engineering and Technology
Bachelor of Technology in Computer Science

Chennai, India
May 2023

- *Relevant Coursework:* Data Structures & Algorithms, Probability and Statistics, Computer Vision, Natural Language Processing, Machine Learning Algorithms, Data Mining, Data Science, Business Analytics.

TECHNICAL SKILLS

- **Programming Languages:** Python, R, MySQL, MongoDB, JavaScript, HTML/CSS, React.js.
- **Data Science & Analytics Tools:** pandas, NumPy, matplotlib, seaborn, scikit-learn.
- **Machine Learning:** Linear Regression, Logistic Regression, Decision Trees, Random Forest, Clustering (K-Means, K-Medoids), CNNs, BERT, Model Evaluation & Tuning
- **Tools & Platforms:** Tableau, Power BI, Jupyter Notebook, Google Colab, Flask, Git, AWS.

PROFESSIONAL EXPERIENCE

RSquare Konnect

Chennai, India

Data Analyst Intern

Nov 2021 – Jun 2023

- Engineered a Python-based data preprocessing pipeline for 3+ years of e-commerce data (14K+ records), reducing processing time by 90% and improving data accuracy by 80% through advanced data cleaning techniques, and automation.
- Executed K-Medoids-based customer segmentation, identifying actionable user clusters to optimize marketing strategies and improve customer retention.
- Performed churn analysis using Random Forest, achieving 81% accuracy in predicting customer behavior and categorizing customers (e.g., likely to churn, loyal) for targeted retention strategies.

Stack Nation

Chennai, India

Flutter App Developer

Jan 2021 – Mar 2021

- Designed a user-friendly interface for an internship portal, increasing user engagement by 40%.
- Integrated web services to streamline job postings and candidate data retrieval, reducing data processing time by 50% and improving portal efficiency.
- Conducted extensive testing and debugging to ensure a seamless user experience and enhance platform reliability.

TECHNICAL PROJECTS

Eidetik: Contextual Memory Assistant for Intelligent Document Management

Jan 2025 – Apr 2025

- Developed a vector-based memory retrieval system using MongoDB, Pinecone, and MiniLM-L6-v2 embeddings to enable semantic key-value lookups.
- Built a chatbot interface with NLP preprocessing, prompt templating, and LLM safety checks to handle document-level question answering securely.
- Demonstrated the ability to manage full-stack ML workflows involving vector search, LLM safety, and backend integration.

Intent Classification using ATIS Dataset

Nov 2024 – Dec 2024

- Built a complete NLP pipeline with tokenization, TF-IDF, and baseline models (Naive Bayes, Logistic Regression).
- Fine-tuned CNN and BERT models in Python, achieving 95% accuracy and 94% F1 score, outperforming traditional classifiers.
- Delivered a performance comparison and presented model insights, showcasing skills in deep learning and model evaluation.

American Sign Language Recognition System

Mar 2024 – Apr 2024

- Led a deep learning project to recognize ASL gestures using real-time webcam input and CNN architectures (VGG16, ResNet50).
- Achieved 93% accuracy, enhancing accessibility for 500+ users through intuitive gesture interpretation.
- Optimized inference speed and usability, demonstrating an end-to-end approach from data collection to deployment.

CERTIFICATIONS

- **Machine Learning**, Stanford University (2025) | **Credential ID:** coursera.org/verify/specialization/0H1CY.
- **AWS Machine Learning Foundations**, AWS Academy (2022) | **Credential ID:** credly.com/badges/55d07.