ANBU EZHILMATHI NAMBI

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EDUCATION

The George Washington University, School of Engineering & Applied Science — **Washington, DC**
Master of Science in Data Analytics — **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 — **Chennai, India**
Bachelor of Technology in Computer Science — **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 programming, MySQL, MongoDB, C, JavaScript, HTML/CSS, React.js.
- **Tools and Technologies:** Tensorflow, Flask, Firebase, Jupyter Notebook, Google Colab, Tableau, Power BI, Git, Android Studio, AWS.
- **Other Skills:** Machine Learning and Techniques, Web App Development, API integration, Relational Database Management.

PROFESSIONAL EXPERIENCE

RSquare Konnect — **Chennai, India**
Data Analyst Intern — **Nov 2021 - Jun 2023**

- Developed 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**

- Built a vector memory store using MongoDB and Pinecone with MiniLM-L6-v2 embeddings, enabling rapid, similarity-based key value lookups.
- Implemented NLP query preprocessing, prompt engineering and LLM security checks, and a chatbot for text queries.

Intent Classification using ATIS Dataset — **Nov 2024 - Dec 2024**

- Built an NLP pipeline (tokenization, stop-word removal, TF-IDF) and trained baseline models (Naïve Bayes, Logistic Regression).
- Developed and fine-tuned CNN and BERT models in Python, achieving 95% accuracy and 94% F1 score and concluded that transformer-based methods outperformed traditional classifiers.

American Sign Language Recognition System — **Mar 2024 - Apr 2024**

- Led the development of an ASL recognition system, improving communication accessibility for over 500 users by addressing language barriers.
- Achieved 93% recognition accuracy using deep learning models like VGG16, ResNet50, and custom models to enhance real-time gesture interaction speed and accuracy.

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.

PUBLICATION

Assessment of Cardiac Dynamics and Risk Factor Analysis Using Deep Neural Nets — **Jan 2021 - Jun 2021**

- Co-authored Chapter 7 in ***Leveraging AI Technologies for Preventing and Detecting Sudden Cardiac Arrest and Death*** (IGI Global International Academic Publisher). Focused on advancing cardiovascular risk prediction using Machine Learning techniques, offering innovative insights into early detection and prevention strategies.