

Kevin Pulikkottil

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Education:

The University of Texas at Dallas; Richardson, TX

Bachelor of Science in Computer Science (May 2026)

Major GPA:

Technical Skills:

- **Programming Experience:** Java, C++, MIPS Assembly, Python, SQL, Haskell, Prolog
- **Tools & Technologies:** AWS, Git, Data Visualization, Jupyter Notebooks, TensorFlow, Google Colab
- **Machine Learning & AI:** Neural Networks, Regression Models, NLP, Data Preprocessing, CNN, YOLOv3
- **Cloud Computing & Security:** AWS Cloud Services, Network Security, Cloud Billing
- **Problem Solving:** Data Structures, Algorithms, AI Systems, Linear Algebra

Current Courses:

Database Systems

Topics include data models, data normalization, data description languages, query facilities, file organization, index organization, file security, data integrity, and reliability.

Artificial Intelligence

Concepts and techniques for intelligent computing, with examples from natural language, vision, machine learning, search, logic, and theorem proving.

Automata Theory

Study of abstract machine computation: finite automata (deterministic and nondeterministic), regular expressions and languages, context-free grammars, pushdown automata, Turing machines, and undecidability.

Computer Networks

Design and analysis of computer networks, covering the ISO model, transmission media, access protocols, LANs, data link protocols, routing, congestion control, internetworking, and connection management.

Project Experience:

AlgoVerse Coding Academy

AI Research Program – February 2024

- **Breast Cancer Detection Model:** Developed a machine learning model using the Breast Cancer Wisconsin Dataset in Python (scikit-learn, pandas,

NumPy) to classify breast cancer diagnoses. Achieved 92% accuracy and improved the initial model accuracy by 10%.

- **Recognizing Handwritten Digits (MNIST Dataset):** Built a Convolutional Neural Network (CNN) in Python (TensorFlow, Keras) to classify handwritten digits. Achieved a 98% accuracy on test data.
- **Predicting Diabetes Metrics:** Created a regression model using Python (scikit-learn) to predict patient diabetes metrics based on health data. Improved predictive accuracy by 15% through feature engineering and model refinement.
- **NLP for Text Summarization:** Developed a Transformer-based NLP model for text summarization using Python (TensorFlow, Hugging Face Transformers). The model achieved an 85% compression rate with 90% coherence in the summaries produced.
- **Fine-Tuning YOLO Algorithm for Object Detection:** Fine-tuned YOLOv3 for real-time object detection on a custom dataset using Python (OpenCV, TensorFlow). Improved detection precision by 5%.

Linear Algebra Matrix Operations Program

- Built a Python program to perform matrix operations, including rank calculation, determinants, and eigenvalues.

Stock Analysis Program

- Developed a tool using **Python, Matplotlib, and Finnhub API** to analyze stock data and calculate stock option prices. Enhanced the project with real-time data visualization and regression techniques.

Certifications & Honors:

- **Eagle Scout** (January 2021)
- **AWS Certified Solutions Architect - Associate (SAA-C03) Cert Prep: 1 Cloud Services Overview**, December 2023
Skills: Cloud Services, Amazon Web Services (AWS)
- **SQL Essential Training**, May 2023
Credential ID: AWVtxidA4C8HIGk6leG-OhkWulq
Skills: SQL
- **Introduction to AWS for Non-Engineers: 1 Cloud Concepts**, March 2022
Skills: Cloud Computing, Amazon Web Services (AWS)
- **Introduction to AWS for Non-Engineers: 2 Security**, March 2022
Skills: AWS Security, Network Security
- **Introduction to AWS for Non-Engineers: 3 Core Services**, May 2022
Skills: Amazon Web Services (AWS)
- **How to Use Data Visualization to Make Better Decisions—Faster**, June 2021
Skills: Data Visualization, Data-driven Decision Making