

Aakaash M S

Portfolio — GitHub — LinkedIn — msaakaash@hotmail.com — 9543356748

Objective — Versatile developer with expertise in building scalable applications, designing ML/DL models, optimizing cloud solutions on AWS and GCP, and implementing robust network architectures. Dedicated to leveraging emerging technologies to drive innovation and enhance AI-driven solutions.

Education

Amrita Vishwa Vidyapeetham, Coimbatore

Bachelor of Technology in Computer Science and Engineering

GPA: 8.16

Notre Dame Of Holy Cross, Salem

Higher Secondary - Computer Science

Percentage: 94.8 %

Work Experience

Associate Software Intern

Jan 2025 – Present

Nutmeg Software Solutions

Hosur, Tamil Nadu

- Successfully deployed and optimized cloud-based applications using AWS services, including Amazon EC2 and Amazon S3, achieving a 20% improvement in performance and reducing operational costs by 15%.
- Led a team of 4 developers in developing a full-stack web application for a client, leveraging React, Node.js, Express.js, and PostgreSQL, resulting in a 30% increase in user engagement.
- Effectively managed cross-functional teamwork using JIRA, streamlined meeting documentation by taking precise minutes, enhancing operational efficiency in a fast-paced startup environment.

Projects

Multivariate Stock Price Forecasting — *Python, LSTM, Pandas, Matplotlib, Tensorflow* — [\[GitHub\]](#)

- Developed a Multivariate Time Series Stock Price Forecasting model using LSTM, incorporating data collection, preprocessing, inference, and model explainability with SHAP, along with visualization using TensorBoard.
- Achieved a stock price forecasting accuracy of 97.73% (MAPE: 2.27%) using LSTM on 5 years of Google stock data
- Designed an interactive Power BI dashboard featuring 5+ key visualizations, including Actual vs. Predicted Price Trends, Rolling Averages, and Evaluation Metrics (MAE, RMSE, R², MASE), enabling data-driven stock market analysis.
- Deployed the model using TensorFlow Serving, enabling scalable, low-latency real-time inference for efficient financial predictions.

Personal Health and Fitness Application — *React, NodeJS, PostgreSQL, Tailwind CSS, ExpressJS* — [\[GitHub\]](#)

- Collaborated with a 4-member team to build a full-stack Personal Health and Fitness app for activity tracking, nutrition monitoring, and personalized workouts with seamless UI/UX. Leveraged Postman for API testing and validation.
- Implemented scheduled notifications to help users stay consistent with their fitness goals, ensuring regular engagement.
- Followed Agile principles ensuring seamless team collaboration and efficient sprint planning for scalable and maintainable solutions.

Secure Multi-User Chat Application — *Go, TCP Sockets, net package, Goroutines, Channels, TLS Encryption, Mutex* — [\[GitHub\]](#)

- Developed a highly scalable, concurrent chat server utilizing Go's goroutines and channels, supporting private, public, and group messaging.
- Integrated and configured TLS encryption to establish a secure communication channel, ensuring end-to-end data privacy and integrity between clients and server.
- Optimized concurrent user handling with Go's lightweight goroutines, channels, and efficient TCP socket programming.

Skills

- **Areas of Interest:** Data Science, Machine Learning, Cloud Computing, Networks
- **Programming Languages:** C, C++, Python, Java, HTML5, CSS3, JavaScript, Go
- **Frameworks and Libraries:** React, Node.js, Express.js, Flutter, TensorFlow, PyTorch
- **Databases:** MySQL, PostgreSQL, MongoDB
- **Cloud Platforms:** AWS (EC2, S3, Lambda), Google Cloud Platform
- **Tools:** Git, GitHub, Jira, Docker, Firebase, Jupyter Notebook

Certifications

- **IBM Introduction to Deep Learning and Neural Networks with Keras** – Coursera (2025) – [View Certificate](#)
- **Google Cloud Computing Foundations Certificate** – Google Cloud (2025) – [View Certificate](#)
- **Machine Learning with Python** – freecodecamp (2024) – [View Certificate](#)

Awards and Extra-curricular

- **Finalist in Generative AI Hackathon** – Value Health (2025)
- **Excellence Award - 3rd Rank in High School** – Notre Dame of Holy Cross (2022)
- **Tennis Player** – Participated in university-level and state-level tournaments.