

Guru Saran Kannan

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EDUCATION

B.Tech Artificial Intelligence, SRM Institute of Science and Technology 06/2021 – 05/2025 | Kattankulathur, India
CGPA: 7.93 / 10

TEST SCORES

GRE General Test, ETS (Educational Testing Service) 04/2025
Score : 327 / 340 (Verbal Reasoning: 157, Quantitative Reasoning: 170, AWA: 5)

TOEFL iBT Test, ETS (Educational Testing Service) 07/2025
Score: 106 / 120 (Reading: 27, Listening: 30, Speaking: 21, Writing: 28)

RESEARCH PROJECTS

Task Planner, (Python, Pandas, NumPy, LangChain, LangGraph) 03/2025

- Engineered an LLM-powered planner that cut daily scheduling time 35 % for 50 beta users
- Streamlined task-priority logic, lifting on-time completions 62% → 82% in two weeks
- Orchestrated a 3-node LangGraph workflow—history analysis → Tavily web-search → plan synthesis—that delivers personalised task roadmaps in < 2 s
- Built a Streamlit UI with secure API-key vaulting and auto-history versioning for 150+ tasks, letting users revisit and refine every prior plan

Intelligent Traffic Signal Network, 12/2024 – 04/2025
(Python, Pandas, NumPy, OpenAI Gym, Unreal Engine)

- Architected an RL-based signal controller that boosted intersection throughput ≈30% in sims
- Reduced average wait time 22% via adaptive green-time tuning and route recommendations
- Validated model over 10k multi-agent episodes, logging convergence in < 75 iterations
- Co-authored a Springer IconDeepCom 2025 paper; open-sourced code for research reuse

Adaptive RAG System for Student Support – BlueArise, 10/2024
(Python, LangChain, OpenAI APIs, FAISS Vector DB, Streamlit)

- Designed an adaptive RAG system that automated 70% of repeat support issues across 500+ tickets
- Reduced response times from 24h to <5min, lifting satisfaction scores 25% via real-time semantic matching
- Fine-tuned LLM to 85% accuracy on unseen edtech queries, with iterative learning from mentor feedback
- Deployed interactive Streamlit dashboard for ticket monitoring and system performance tracking

AI-Driven Pronunciation Training with Adaptive Learning Framework, 06/2024 – 11/2024
(Python, TensorFlow, PyTorch, Speech Recognition APIs, Transformer Models (Wav2Vec 2.0), Large Language Models)

- Designed a speech coach adopted by 120+ ESL learners, raising accuracy +18 pp in 6 weeks
- Implemented real-time phoneme & stress detection with ≤120 ms end-to-end latency
- Trained on 9 000 h of LibriSpeech + Common Voice, achieving 21% WER baseline
- Personalised feedback loops that cut repeated pronunciation errors by 20% for beginners

Toxic Comment Classification Using Deep Learning, 04/2022
(Python, TensorFlow, Pandas, NumPy, Matplotlib, Scikit-learn, Gradio)

- Built a 6-label classifier hitting micro-F1 0.92 on 160 k online comments
- Vectorized 100% of texts with TF TextVectorization, trimming preprocessing 40%
- Optimised Bi-LSTM-Dense pipeline for 3 × faster inference at 93% precision / 91% recall
- Launched a Gradio demo that served 210 live predictions

PUBLICATIONS

Virtual Traffic Dynamics (VTD): A Custom AI Traffic Simulation Approach [↗](#)

A Reinforcement Learning AI Traffic Simulation Accepted for publication in Proceedings of the International Conference on Deep Learning and Communications (IconDeepCom 2025). Springer. (Presented April 2025; forthcoming 2026).

CONFERENCE PRESENTATIONS

Presented "Virtual Traffic Dynamics (VTD): A Custom AI Traffic Simulation Approach" at IconDeepCom 2025 (Springer), demonstrating RL-based traffic optimization to 150+ attendees. [↗](#)

PROFESSIONAL EXPERIENCE

Software Engineer, Wasabi Scripts LLC [↗](#) 08/2023 – Present | United States - Remote

- Maintained and enhanced FiveM game scripts used by 18,000+ servers worldwide, driving community engagement
- Supported scripts resulting in over 27,000 sales to satisfied customers, boosting adoption and revenue
- Reduced critical bug reports by 25% through effective debugging and troubleshooting
- Led community engagement, managing feedback from 200+ users to prioritize features
- Collaborated with a remote team to maintain 99.8% uptime and compatibility across diverse server environments

SKILLS

Python: Data analysis, scripting, automation, TensorFlow, PyTorch, OpenAI Gym

AI and Machine Learning Concepts: Reinforcement learning, NLP, model training and evaluation

Debugging & Troubleshooting: Code debugging, performance profiling, bug fixing

Data Structures: Algorithms, collections, memory management

Lua: Game scripting (FiveM), embedded scripting, debugging

Git & GitHub: Version control, collaboration, branching strategies

SQL: Database queries, data manipulation, performance tuning

Game Server Modding (FiveM): Script development, community support, troubleshooting

Vim: Editing, keyboard shortcuts, plugin management

CERTIFICATES

NVIDIA-Certified Associate: Generative AI Multimodal [↗](#)

Artificial Intelligence Fundamentals (IBM) [↗](#)

AI Agents (Hugging Face) [↗](#)

Fundamentals of MCP (Hugging Face) [↗](#)

Prompt Design in Vertex AI (Google Cloud) [↗](#)

Deep Learning for Computer Vision and Image Processing Applications Workshop [↗](#)

Analytics and ML Workshop [↗](#)

ORGANIZATIONS

FiveM Open Source Community, 08/2024 – Present | Remote

Open Source Contributor & Developer Support Volunteer [↗](#)

- Mentored 100+ developers and shipped 2 Lua resources adopted by 340+ FiveM servers