STEPHEN RAJ

AI Architect & Data Scientist

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Cuddalore, Tamil Nadu, India

PROFESSIONAL SUMMARY

Innovative AI Engineer and Data Science undergraduate with practical expertise in Computer Vision, Deep Learning, and Edge AI. Proven track record of building high-performance systems, including autonomous traffic grids and quantum-enhanced financial predictors. Proficient in deploying scalable ML pipelines using Docker, AWS, and TensorFlow. Seeking to leverage internship experience at Big Bucks Innovation and expertise in Generative AI to drive enterprise-level innovation.

TECHNICAL SKILLS

Core AI & ML: TensorFlow, PyTorch, Keras, Scikit-Learn, XGBoost, OpenCV, YOLOv8, GANs, LSTM.
Languages: Python (Advanced), C++, Java, JavaScript (ES6+), SQL, Bash Scripting.
Web & 3D: React.js, Node.js, Three.js, WebGL, HTML5, CSS3, REST APIs.
Cloud & DevOps: AWS (EC2, S3), Docker, Kubernetes, CI/CD, Git/GitHub, Linux.
Data Science: Pandas, NumPy, Matplotlib, Seaborn, Tableau, Apache Spark, MongoDB.

PROFESSIONAL EXPERIENCE

Data Science Intern   *Big Bucks Innovation Pvt Ltd*
Chennai, Tamil Nadu   *Jan 2024 - Present*
  - Collaborating with the engineering team to build data-driven solutions and optimize existing ML models.
  - Cleaning and pre-processing massive datasets using Pandas and SQL, improving model training speed by 30%.
  - Implementing Automated Testing for ML pipelines, significantly reducing deployment errors.
  - Assisting in the development of predictive analytics tools to forecast market trends with high accuracy.

AI Solutions Architect   *Freelance / Self-Employed*
Remote   *Jan 2023 - Present*
  - Architecting scalable LLM solutions for automated customer support agents.
  - Developing 3D WebGL interfaces using Three.js to visualize complex neural network data.
  - Optimizing Python inference scripts to reduce cloud computing latency and costs by 25%.

FEATURED PROJECTS

Autonomous Traffic Management System (Edge AI)
  - Engineered a real-time Computer Vision system using YOLOv8 to detect emergency vehicles.
  - Reduced average intersection wait times by 40% in simulated urban environments.
  - Deployed the model on NVIDIA Jetson edge devices using TensorRT optimization.

Multi-Lingual Sentiment Analysis Engine (NLP)
  - Developed a BERT-based Transformer model capable of analyzing social media sentiment.
  - Achieved 92% validation accuracy on the HuggingFace benchmark dataset.
  - Integrated the model into a FastAPI microservice handling 500+ requests per minute.

DeepFake Detection System (Generative AI)
  - Built an Adversarial Network (GAN) trained to detect synthetic media and deepfakes.
  - Implemented Frame-by-Frame analysis using CNNs to identify artifacts invisible to the human eye.

Quantum-Enhanced Stock Predictor (FinTech)

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- Designed a hybrid LSTM network integrated with quantum-inspired algorithms for volatility forecasting.
- Processed historical financial data to train predictive models achieving 85% directional accuracy.

EDUCATION

B.Tech in AI & Data Science   *SSM Institute of Engg & Tech*
Dindigul   *2023 - 2027*
Relevant Coursework: Neural Networks, Data Structures & Algorithms, Cloud Computing, Discrete Mathematics.

CERTIFICATIONS

- Google Professional Machine Learning Engineer (TensorFlow)
- AWS Certified Machine Learning - Specialty
- Deep Learning Specialization (Coursera / DeepLearning.AI)