DANIEL J

B.Tech, Artificial Intelligence & Data Science
Karunya Institute of Technology and Sciences
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A Passionate Engineer

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Profile Summary

- Full-Stack Engineer and AI & Data Science undergraduate (2026) with experience in building Progressive Web Apps (PWAs) and backend systems using Node.js, Express, and React.

- Innovative problem-solver with two patent-pending projects and proven expertise in integrating AI/ML models into production applications.

- Skilled in the full software development lifecycle (SDLC), from designing RESTful APIs to deploying cloud-native solutions on AWS and Google Cloud Platform.

Education

Degree	Institute/Board	CGPA/Percentage	Year
B.Tech., AI & Data Science	Karunya Institute of Technology and Sciences, Coimbatore	7.1 / 10.0	2022 - Present
Senior Secondary (XII)	Lisieux Matric Hr. Sec. School, Coimbatore (State Board)	68.0%	2022
Secondary (X)	Lisieux Matric Hr. Sec. School, Coimbatore (State Board)	77.0%	2020

Experience

- **Popclozet (Startup)**   *Jan 2026 - Present*
  Full Stack Developer Intern   Online
  - Engineering a Progressive Web App (PWA) for a sustainable fashion rental platform, focusing on performance and offline capabilities.
  - Designing scalable backend logic using Node.js and Express to manage logistics states, including inventory tracking and cleaning cycles.

- **Bhumisoil (Startup)**   *Sep 2025 - Dec 2025*
  Data Scientist Intern   Online
  - Developed machine learning predictive models for agricultural datasets using Python and Scikit-learn to optimize yield predictions.
  - Constructed preprocessing pipelines to ensure data integrity and improve model evaluation accuracy.

- **Skill Radar**   *May 2025 - Jun 2025*
  Data Science Intern   Coimbatore, India
  - Engineered a Python-based recommendation engine aligned with NEP 2020 guidelines for academic domain selection.
  - Deployed interactive dashboards using Streamlit to visualize analytical insights for stakeholders.

- **P G Softwares**   *Jun 2024 - Jul 2024*
  Full Stack Intern   Coimbatore, India
  - Developed backend REST APIs using Node.js and integrated them with frontend components for an e-commerce platform.
  - Contributed to feature testing and debugging, ensuring a reliable user experience in production environments.

Skills

- Programming Languages: Python, Java (Kotlin), JavaScript, C++, SQL
- Web Backend: Node.js, Express, React, REST APIs, HTML/CSS
- AI Data Science: Machine Learning (Scikit-learn), Deep Learning (TensorFlow, CNN), Pandas, Data Visualization
- Cloud Tools: Git/GitHub, Postman, Docker (Basic), AWS (Basics), GCP (Vertex AI, BigQuery)

Projects

- **Entropy-Regularized EMG-to-Speech Decoder (Individual Project)**   *Jan 2025 - Apr 2025*
  Tools: Python, Deep Learning (CNN, Transformer), Federated Learning   [○]
  - Developed a real-time EMG-to-speech system using 1D-CNN and Transformer architectures to assist speech-impaired users.
  - Implemented federated learning and differential privacy techniques for secure multi-user personalization.

- **Smart Agro-Based Dual-Mode Cooling System (Patent-Pending)**   *Jun 2025 - Sep 2025*
  Tools: Python, IoT (ESP8266), Cloud Dashboard   [○]
  - Engineered a smart storage system integrating AI-based spoilage prediction with IoT-enabled monitoring.
  - Implemented dual-mode thermoelectric cooling, achieving reduced energy consumption compared to conventional systems.

- **Core Mate - Smart Personal Assistant App (Individual Project)**   *Sep 2024 - Jan 2025*
  Tools: Kotlin, Room DB, Retrofit, REST APIs   [○]
  - Built an Android personal assistant application using Kotlin with secure local storage and API integrations.
  - Integrated AI capabilities via LLaMA-based APIs to enhance assistant functionality and user interaction.

- **AI Course Recommender Platform (Individual Project)**   *May 2025 - Jun 2025*
  Tools: Node.js, Express, React, OpenAI API   [○]
  - Developed a full-stack recommendation platform with scalable RESTful backend services.
  - Integrated AI-driven logic via external APIs to provide personalized course suggestions.

- **API Testing & Automation Framework (Individual Project)**   *Sep 2025 - Oct 2025*
  Tools: Python, Postman, CI/CD Concepts   [○]
  - Built a backend automation framework for API testing using Python and Postman collections.
  - Implemented automated test scripts to validate endpoints, supporting rigorous SDLC testing workflows.

Publications & Achievements

- **Patent (Ongoing): Smart Agro-Based Dual-Mode Cooling System**   *Filed 2025*
  Smart storage system using AI, IoT, and dual-mode cooling

- **Patent (Ongoing): SensaStim**   *Filed 2025*
  IoT-Based TENS Neuro-Assist Device

- **IEEE Paper: Detection of Plant Diseases using ML**   *Submitted 2025*
  Applying CNNs for image classification

- **AWS-Basics Certification**   *2025*
  Amazon Web Services

- **Google Cloud Foundations Certification**   *2024*
  NPTEL / Google Cloud

- **Oracle Cloud Infrastructure (OCI) AI Foundations Associate**   *2025*
  Oracle Certified (2025)

Positions of Responsibility

- **Department Spiritual Coordinator**   *2025 - Present*
  B.Tech AI & Data Science, Karunya Institute ATOM - (ASSOCIATION OF TECHNOLOGY ORIENTED MINDS)