

SHERLIN SILVIA A

B.Tech. Artificial Intelligence & Machine Learning

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CARRER OBJECTIVE

AIML undergraduate with full-stack (MERN) and applied deep-learning experience. Built and shipped [4+] end-to-end web applications and an NLP-based resume-job matching tool during a 6-month internship and independent projects. Seeking Software Engineer / ML Engineer roles to apply strong fundamentals in data structures, full-stack development, and applied ML.

EXPERIENCE

Full Stack Developer Intern | BetterTek, Chennai 6 months

- Built an AI-powered content automation feature that auto-generates social media posts from input text using gemini, reducing manual content creation time by 50%.
- Developed responsive frontend interfaces in **TypeScript/React**, and built REST APIs on a **Java Spring Boot** backend, shipping features across the internship.
- Collaborated with a development team of **2** engineers using Agile practices — sprint planning, code reviews, and Git-based version control.

PROJECTS

AI Resume Analyzer & Job Matching Tool — MERN, NLP

- Built an NLP pipeline using **cosine similarity** to compute skill-match scores between resumes and job descriptions.
- Designed a MERN web app with resume upload, parsing, and real-time match-score visualization for recruiters.
- Achieved **93%** matching accuracy on test resumes; reduced manual screening time processed a resume in seconds.

Thisai – Global Trotter — React.js, Node.js, Express.js, MongoDB

- Engineered a full-stack itinerary planner with CRUD-based trip, activity, and budget-tracking features.
- Integrated a Maps API for route and location visualization, and built a dashboard aggregating trip expenses in real time.
- Supports simultaneous itineraries with multi-city and multi-day planning.

ECG Signal Classification using Deep Learning — Python, TensorFlow, Keras, CNN

- Preprocessed ECG signal data (filtering, normalization) from the **[MIT-BIH Arrhythmia]** dataset across heart-condition classes.
- Designed and trained a CNN architecture, tuning hyperparameters (layers, learning rate, batch size) to improve performance.
- Achieved **95%** test accuracy; evaluated using **[confusion matrix]** to address class imbalance.

Skill Swap – Peer Learning Platform — React.js, Node.js, Express.js, MongoDB

- Built a full-stack platform with **JWT-based authentication** and a matching algorithm connecting users by complementary skill sets.
- Designed the skill-listing, search, and filter system supporting **20+** skill categories.

EDUCATION

B.Tech, Artificial Intelligence and Machine Learning | Kongu Engineering College, Perundurai 2023 – 2027
CGPA: 8.51*

HSC | RKR Grks Matric Hr Sec School, Udumalpet 2022 – 2023
Percentage: 91.3%

TECHNICAL SKILLS

- Languages:** Python, JavaScript, TypeScript, Java
- Frameworks & Libraries:** React.js, Node.js, Express.js, Spring Boot, TensorFlow, Keras
- Databases & Tools:** MongoDB, Git, GitHub, Figma, Keycloak, Power BI, REST APIs
- Core CS:** Data Structures, Algorithms, Object-Oriented Programming, DBMS, Software Development Lifecycle (SDLC), Agile/Scrum
- Domains:** Machine Learning, Natural Language Processing, Full-Stack Development, Data Analysis

LEADERSHIP & HACKATHONS

- Executive Member, AI Association | Freelancer Club Member | Member, Youth Red Cross Club
- Odoo Hackathon (SNS Institutions) | Exodia Hackathon (Kongu Engineering College)
- Freelancer Club Hackathon (Kongu Engineering College)