MUNIPALLE KAVYANJALI

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Education

2021 – 2025 B.Tech (CSE - Data Science), **SRM AP University** (GPA: 8.1/10.0)

Work Experience

SWE Intern @ EPAM Systems *Jan 2025 – Jun 2025*

- Developed role-based access (Client, Coach, Admin) enhancing UX and security.
- Built responsive UI using React, TypeScript, JavaScript; backend with Node.js, Express.js.
- Implemented secure authentication/authorization with AWS Cognito.
- Integrated RESTful APIs via AWS Lambda, API Gateway, S3 (serverless backend).
- Deployed on Kubernetes (KubeRocket) ensuring scalable, containerized deployment.
- Collaborated in Agile/Scrum teams using JIRA for sprint planning, stand-ups, retros.

Skills

Technical	DSA (Beginner), C++, Python, MySQL, HTML5, CSS3, JavaScript, TailwindCSS, TypeScript, Node.js, Express.js, React
Tools/Frameworks	JIRA, Git, Git CI/CD, Jest, Mocha, Postman, Webpack, AWS, MongoDB, Redux
Core Concepts	OOP, Machine Learning, Deep Learning, REST APIs, WebSockets, Microservices, Agile, Design Patterns, SOLID Principles
Soft Skills	Communication, Problem Solving, Project Management, Public Speaking, Team Collaboration

Achievements

University Hackathon

- Proposed & developed a prototype for an offline-to-online payment solution using a wearable wristwatch with Wi-Fi connectivity.

Published Book Chapter

- Contributed to *"Machine Learning Approach to Predict Scattering Coefficients of Myocardium Tissue in the NIR Band for In-Vivo Communication"* in *Edge-Enabled 6G Networking: Foundations, Technologies, and Applications*.

Projects

Gym Management Application

- Full-stack web app with role-based access (Client, Coach, Admin).
- Built using React, TypeScript, Node.js, Express.js; deployed on Kubernetes.
- Integrated AWS Lambda, API Gateway, S3 for serverless backend & storage.

ML-Based Cardiac Scattering Analysis

- Researched nanosensor networks (iWNSNs) for heart tissue analysis.
- Trained ML models to predict scattering losses across THz/optical bands.
- Validated with IT'IS datasets, contributing to biomedical analysis.

Virtual Memory Manager

- Implemented C++ virtual memory simulator with TLB (16 entries) & page table (256 entries).
- Performed virtual → physical memory translation from .txt/.bin files.
- Calculated TLB & page table hit rates for performance insights.