REMIL SALIM K P

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SUMMARY

M.Tech Computer Science and Engineering student with hands-on experience in artificial intelligence and machine learning through academic and research projects. Strong foundation in Python-based data preprocessing, exploratory data analysis, feature engineering, and model evaluation, with exposure to deep learning concepts and model inference. Experienced in working with real-world biomedical datasets and collaborating with cross-functional teams to translate requirements into technical solutions.

EDUCATION

M.Tech, Computer Science and Engineering   2024–2026
Government Engineering College, Thrissur   SGPA: 8.36
APJ Abdul Kalam Technological University

B.Tech, Computer Science and Engineering   2020–2024
Royal College of Engineering and Technology, Thrissur   CGPA: 8.03
APJ Abdul Kalam Technological University

TECHNICAL SKILLS

Programming: Python, SQL
Machine Learning & AI: Supervised & Unsupervised Learning, Feature Engineering, Model Evaluation, Exploratory Data Analysis, Model Inference (Basic)
Deep Learning (Foundational): Neural Network Concepts, Training & Evaluation (Academic Exposure)
Libraries & Frameworks: Pandas, NumPy, Scikit-learn, Matplotlib, Seaborn
Backend & Integration: REST APIs, Flask (Basic), HTML, CSS
Databases: MongoDB (Basic), MySQL
Tools: VS Code, Google Colab, Git, GitHub
Professional Skills: Analytical Thinking, Problem Solving, Technical Documentation, Team Collaboration, Communication

PROFESSIONAL EXPERIENCE

IT & Web Systems Support, Care Palliative Center: Tirur, Kerala, India   June 2025 – Present

- Supported day-to-day operations by resolving software and web application issues, ensuring smooth workflow across departments.
- Assisted in planning and executing system update cycles, coordinating with staff to minimize downtime and maintain data integrity.
- Collaborated with cross-functional teams to understand requirements, troubleshoot problems, and support small-scale implementation tasks.
- Supported basic data handling, reporting, and system documentation tasks related to internal web applications.

CLIENT PROJECT EXPERIENCE

Stock Management System

- Coordinated and developed a full-stack stock management system for a real client using the MERN stack, handling requirements, implementation, and delivery.
- Built responsive and reusable UI components using React, HTML, CSS, and Material UI.
- Integrated RESTful APIs developed using Node.js and Express.js to handle stock creation, updates, and retrieval.
- Designed MongoDB schemas to manage inventory records and ensure data consistency.
- Collaborated directly with the client to gather requirements, iterate on features, and refine workflows.
- Ensured proper documentation and smooth deployment handover upon project completion.
- **Technologies Used:** MongoDB, Express.js, React, Node.js, Material UI, HTML, CSS.

ACADEMIC PROJECTS

TissEx: Explainable Framework for Tissue-Specific Adverse Drug Reaction Prediction

- Designed and implemented a data-driven framework to analyze tissue-specific adverse drug reactions using multi-source biomedical data.
- Integrated datasets including DrugBank, SIDER, GTEx, and STRING to model drug–target–tissue relationships.
- Performed extensive data cleaning, preprocessing, and exploratory analysis to ensure data consistency and reliability.
- Organized complex datasets and structured inputs to support analysis and review by the project team.
- Prepared clear documentation explaining data assumptions, workflows, and outcomes for evaluation.
- Produced documented workflows and reproducible pipelines for future model extension and analysis.
- **Tools Used:** Python, Pandas, NumPy.

Modular Multi-Source Drug Side-Effect Prediction Using DruGNN

- Integrated data from multiple sources (SIDER, DrugBank, STITCH, HuRI, PubChem) for drug side-effect analysis.
- Conducted exploratory data analysis to understand feature distributions and dataset relationships.
- Prepared and validated structured inputs for graph-based neural network models used in drug side-effect prediction.
- Maintained clear documentation of preprocessing steps and experimental observations.
- **Tools Used:** Python, Pandas, Matplotlib.

INTERNSHIPS

Project Intern – Young Innovators Programme (YIP), Kerala Development and Innovation Strategic Council (K-DISC): Thrissur, Kerala, India October 2025 – Present

- Supported district-level implementation of innovation-driven initiatives under the Kerala Government's YIP program.
- Coordinated outreach activities, student engagement, and communication between institutions and program stakeholders.
- Assisted in organising events, collecting project data, preparing reports, and ensuring smooth execution of programme workflows.
- **Skills:** Project Coordination, Documentation, Communication, Leadership, Problem Solving.

Front-End Developer (Intern), Kerala Police Academy: Thrissur, Kerala, India May 2025 – June 2025

- Collaborated with developers to translate design requirements into responsive UI components and integrate REST API-driven data into the interface.
- Collaborated with developers to translate design requirements into responsive and user-friendly HTML/CSS layouts.
- Participated in requirement discussions and maintained version-controlled design iterations for consistent workflow.
- Collaborated with developers to translate design requirements into responsive and user-friendly HTML/CSS layouts and integrate REST API-driven data into UI components.
- **Skills:** Figma, HTML5, CSS3, UI/UX Design, Collaboration.

ACTIVITIES

Finance Committee Student Coordinator – ICETEST 2025 (IEEE Conference) October 2025

- Assisted in budgeting and tracking expenses to ensure proper fund utilization for the conference.
- Coordinated with sponsors, event teams, and faculty to gather requirements and align financial plans.
- Maintained structured records of expenses and prepared summary reports for review and audit.

Student Coordinator – SUSTAINXT National Tech Symposium March 2024

- Led planning and promotion for a national-level sustainability symposium involving multi-institution participation.
- Coordinated registration, logistics, and communication between participants and organizing teams.
- Ensured smooth on-day event execution through active team management and task delegation.