

DHARANEESH J

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Education

Coimbatore Institute of Technology, Coimbatore

M. Sc. in Data Science

Sep 2021 – Present

CGPA: 8.0/10

Experience

Product Engineering Intern

Smartail Pvt Ltd, Chennai

Jul 2024 – Nov 2024

Angular, Java, Python

- Built a DOCX-based worksheet creation system for the "Question Paper" format, integrating UI, API, and data components.
- Developed a feature to view answer papers of selected students in the assignment screen under the preprocessing menu.
- Implemented an "Under Maintenance" screen across web and mobile platforms for consistent user communication.
- Enhanced the functionality for mass update and date filtering in the question library for better organization.
- Integrated a duplicate question detection feature in DOCX-based worksheet creation system to ensure question quality and reduce redundancy.
- Enabled student deletion features in the Super Admin panel for efficient student data management.

Projects

PodStream (Angular, Spring Boot, iTunes Search API)

Smart Podcast Explorer

- Developed a responsive podcast discovery application using Angular for frontend and Spring Boot for backend API routing.
- Integrated the iTunes Search API to fetch podcast data and display searchable results with episodes and playback support.
- Designed a custom episode player popup with play/pause, next, and previous controls for seamless episode browsing.
- Applied modern styling with SCSS, background imagery, and component-based theming for a polished user experience.

Pore Pressure Proxy Modeling (Python, Seaborn, Scikit-learn, XGBoost)

Geological Forecasting Model

- Built and evaluated regression models (Linear, Ridge, Random Forest, XGBoost, SVR) to predict a synthetic pore pressure proxy using well log facies data.
- Performed data preprocessing, exploratory analysis, and feature engineering on geological and petrophysical logs.
- Identified Ridge Regression as the best-performing model with an R^2 score of 0.998 for potential real-world extension.

WordCraft AI (Angular, Spring Boot, Flask, Hugging Face, pdfMake)

AI-Driven Markdown Enhancer

- Developed a full-stack web application to summarize, rephrase, and expand user-provided Markdown text using AI models.
- Integrated Hugging Face Transformers using Flask for summarization, rephrasing, and expansion of given text.
- Implemented a modern Angular frontend with live Markdown preview, theme toggling, and animated loading overlays.
- Built a custom PDF export module with user input for headings and optional timestamps using pdfMake.
- Orchestrated communication between Angular, Spring Boot API router, and Python AI services for efficient AI task execution.

Skills

- **Programming Languages:** Java, SQL, Python, HTML, CSS, JavaScript, TypeScript
- **Technologies & Tools:** REST API, Apache Kafka, Amazon AWS, Git & GitHub, Postman, Excel
- **Web Frameworks:** Angular, Flask
- **Soft Skills:** Leadership, Communication, Adaptability, Team player, Time management

Certifications & Achievements

- **Foundations: Data, Data, Everywhere** – Coursera (Google)
- **Problem Solving Through Programming in C** – NPTEL
- **SQL (Advanced), Angular (Basic), Angular (Intermediate)** – HackerRank
- **Research Paper:** "Cyber Crime: Analysis and Prediction using Machine Learning Algorithms" presented at NCMLAI 2023, Trivandrum
- **Dekathon 2.0:** 72-hour Hackathon on Solid Waste Management, Chengannur