ASHIK MUHAMMED T

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Career Objective

Computer Science and Engineering student at CET pursuing a BS in Data Science from IIT Madras, seeking opportunities to apply skills in software development, data science, and problem-solving to real-world projects while gaining hands-on industry experience and contributing to effective technical solutions.

Education

College of Engineering Trivandrum **August 2025 – Present**
Bachelor of Technology, Computer Science and Engineering
CGPA: 9.66/10

Indian Institute of Technology, Madras **September 2025 – Present**
Bachelor of Science, Data Science and Applications
CGPA: 8.63/10

Al Huda English School Neerkunnam **June 2014 – April 2025**
Senior Secondary Education, CBSE

Experience

FlyRank AI **September 2026 – Present**
Front-end AI Engineering Intern

Technical Skills

Languages: Python, C, Java
Web Technologies: HTML, CSS, JavaScript, React
Framework/Libraries: NumPy, Pandas, Next.js, Node.js
Databases: MySQL, PostgreSQL
Tools: Git, GitHub, Linux
Core Concepts: Data Structures, Object-Oriented Programming, Problem Solving

Projects

Accordly | *Next.js, React, TypeScript, Tailwind CSS, Prisma, PostgreSQL, PayPal API*

- Collaborated with a team to develop Accordly, an AI-powered Scope-to-Cash platform for streamlining agreement analysis, scope management, change approvals, and payments.
- Contributed to the development of Next.js interfaces and backend service workflows for agreement ingestion, AI-powered scope analysis, and secure client approval.
- Developed versioned change-order workflows with deterministic pricing, role-based provider controls, immutable approval snapshots, and PayPal payment reconciliation.

ReFind | *Java, Java Swing, JDBC, MySQL, Maven, BCrypt*

- Collaborated with a team to develop ReFind, a centralized Lost and Found Management System for streamlining item reporting, claiming, and moderation.
- Contributed to the development of Java Swing interfaces and backend service workflows for authentication, lost/found item management, and claim processing.
- Developed Claims and Moderation functionalities with role-based access control, addressing concurrent operations and preventing unauthorized item updates.

Brightloop Subscription Management | *Python, Odoo 19, PostgreSQL, XML, Odoo ORM*

- Collaborated in a team during the Odoo Hackathon to develop a custom Subscription Management module extending Odoo 19's ERP capabilities.
- Designed and implemented custom Odoo models, business logic, and XML-based views to support subscription management workflows.
- Integrated the module with Odoo's existing Product, Accounting, and Mail modules using its ORM and modular architecture.

- Configured access control and security rules to establish role-based permissions for subscription-related operations.

Drishti AI | *React, Vite, Tailwind CSS, Python, FastAPI, RAG, Ollama*

- Collaborated as part of the NeuraCET team to develop an interactive AI-powered kiosk assistant for the Drishti 2026 AI Summit at the College of Engineering Trivandrum.
- Contributed to the Frontend/UI development of the kiosk, building responsive interaction screens and user flows for asking questions, displaying streamed responses, and presenting event information.
- Integrated the kiosk interface with the backend RAG pipeline through Server-Sent Events (SSE), enabling real-time token streaming and seamless transitions between thinking and answer states.
- Helped deliver a fully local, offline-capable RAG assistant powered by Qwen 3.5 4B and hybrid BM25 + dense retrieval for grounded Drishti 2026 information.

CampusFix | *Next.js, React, TypeScript, Tailwind CSS, PostgreSQL, Prisma, Openrouter API*

- Built an AI-powered campus infrastructure administration platform as part of Slashforge at Dotslash'26, enabling students to report, locate, and track infrastructure issues across campus.
- Designed a Campus Asset Registry for structured asset registration and retrieval during grievance submission, with AI-assisted image analysis and duplicate/spam detection to improve report quality.
- Implemented role-based authorization for Students, Moderators, Officials, and Admins, supporting controlled issue verification, assignment, resolution workflows, and administrative oversight.

CivicGrid | *React, FastAPI, Python, Gemini API, PostgreSQL, Docker*

- Developed an AI-assisted civic grievance management platform that enables citizens to submit, track, and verify municipal complaints end-to-end.
- Implemented AI-powered grievance classification, department routing, SLA tracking, public tracking tokens, resolution proof-of-work, and citizen satisfaction verification.
- Engineered role-based citizen/officer workflows with persistent audit logs, automated lifecycle tracking, and a deployable full-stack architecture for scalable municipal use.

KEAM Monitor Bot | *Python, Requests, BeautifulSoup, Telegram, GCP*

- Developed a cloud-based monitoring system that tracks KEAM allotment portal updates in real time and notifies subscribers instantly.
- Implemented intelligent change detection with state persistence, Telegram bot commands, and multi-user subscription management.
- Deployed the service continuously on a Google Cloud VM using Linux systemd automation and robust Python error handling.

StudyPlanner | *React, Vite, Typescript, Express.js, PostgreSQL*

- Developed a comprehensive student productivity platform for task management, study planning, and progress tracking.
- Implemented features including Pomodoro timer, streak tracking, deadline reminders, and notification support.
- Built web and Android applications connected to a shared backend database.

ScoreFusion | *HTML, CSS, JavaScript*

- Developed a JEE Main, NEET and KEAM score calculator that computes marks directly from candidates' response sheets.
- Automated score calculation and result analysis, reducing manual effort and improving accuracy.
- Designed an intuitive interface for uploading response data and viewing calculated scores.

Expense Tracker | *HTML, CSS, JavaScript*

- Built a personal and group expense management application for tracking and organizing expenditures.
- Implemented trip expense sharing and automated bill-splitting among multiple participants.
- Designed dashboards for monitoring spending patterns and managing shared expenses efficiently.

Leadership and Positions

NeuraCET **September 2026 – Present**
RAG Module - Member

Heritage and Collectibles Society (HCS) CET **September 2026 – Present**
Web and Technology - Subpanel Member

AICTE IDEA Lab CET **August 2026 – Present**
Web Development Lead

CS Association CET **September - October 2026**
Department Magazine - Proofreading Team

Dhwani CET **July - October 2026**
Technical Team Member

Drishti CET **August - September 2026**
Marketing Team Member

Mashi CET **July - August 2026**
Content Team Member