

MOHAN KUMAR S

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Summary

As a **Computer Science** student at SDM IT Ujire, I am passionate about developing innovative software solutions that solve real-world problems. I have hands-on experience in full-stack development using technologies like React and Express, and a strong foundational understanding of Artificial Intelligence and Machine Learning. I continuously strive to enhance my skills and contribute to impactful projects that blend software engineering with intelligent systems. I am also an active collaborator in workshops and team projects, always eager to share knowledge and learn from others.

Education

SDM Institute of Technology, Ujire, Dakshina Kannada, Karnataka.

2022 - Ongoing

- I'm currently in my 7th semester of Computer Science Engineering with a CGPA of **8.91**. I've complemented my academics with hands-on projects and active participation in workshops.

Projects

Freelance E-commerce - Tech stack: React.js, Node.js, Express.js, MongoDB

2025-08-04 – 2025-08-28

- Built a full-stack e-commerce app with React, Express, and MongoDB for jersey sales.
- Implemented authentication, product management, and order tracking features.
- Designed a scalable SPA architecture for performance and future growth.

[Live Link](#)

SMS Spam Detection: Tech stack - Machine Learning, Python, scikit Learn.

2025-02-21 - 2025-02-23

- ML model that analyses the message is spam or ham.
- Used Python and machine learning libraries like scikit-learn.
- Applied basic text processing techniques to improve accuracy.

[Github](#)

Blog App: Tech stack - React.js, Node.js, Express.js, MongoDB.

2025-03-11 - 2025-03-17

- I built a simple Blog App where users can create, edit, and delete their own posts.
- Implemented user authentication for secure access.
- Designed a clean and user-friendly interface for easy content management.

[Github](#)

Mobile App - Splitify: Tech stack - Android Studio, Java, XML.

2023-08-13 - 2023-10-23

- Splitify is a simple app for tracking and splitting group expenses during trips.
- Allowed users to add expenses and automatically calculate individual shares.
- Made expense management easy and transparent among friends and family.

[Github](#)

Dynamic Text generation: Tech stack - GPT Transformer, Python.

2025-01-12 - 2025-02-01

- fine-tuned my first GPT-2 model for text generation.
- Gained hands-on experience with NLP techniques and transformer architectures.
- Improved the model's ability to produce relevant and coherent text outputs.

[Github](#) [Live Link](#)

Achievements

Hackathon - PredictEd. (1st Place).

SDM Institute of Technology.

2025-09

- As Team Null Pointers, we built an AI system using Random Forest to analyse PAT, SAT, and attendance data, classifying students by risk level.
- We integrated the llama LLM to enhance inference capabilities and deliver personalized academic feedback.
- We built an AI therapist chatbot to support students' emotional and mental well-being.
- We built a tool to evaluate handwritten answers, identify student weaknesses, and suggest improvements.

Competitive Programming. (1st Place).

2025-04

SDM Institute of Technology. By IS Dept.

- Secured 1st rank among 50 participants at SDMIT, showcasing strong problem-solving and algorithmic skills.

Hackathon – Freelancing Hub.

Alvas Institute of Technology.

2024-11

- Developed a comprehensive website for freelancers, catering to gig workers' needs.
- Enabled users to create profiles, showcase skills, and apply for gigs easily.
- Aimed to streamline opportunity discovery and improve visibility for gig workers.

Hackathon - Farm Direct.

SDM Institute of Technology.

2024-09

- Created a software named 'Farm Direct' that connects farmers to consumers directly.
- Simplified the supply chain to ensure fair pricing and better market access for farmers.
- Focused on improving transparency and efficiency in agricultural product delivery.

Technical Skills

Programming Languages

JavaScript, Python

Frameworks & Libraries

React.js, Express.js

Databases

MongoDB, MySQL

Computer Science Fundamentals

Operating Systems, Computer Networks, Data Structures & Algorithms, OOP's.

Machine Learning

Scikit-Learn, Supervised Learning (Regression, Classification).

Work Experience

SDM Polytechnique Ujire.

Assisted in a workshop.

2025-07-12

- Supported a React workshop at SDM Polytechnic and conducted a short session for final-year students.
- It was a valuable learning experience!
- Conducted a **hands-on session** covering core React concepts and components.
- Enhanced teamwork and **communication skills** through collaborative teaching. learning.

Certifications

React.js - Advanced skills in React.js for front-end development.

2024-10

Career Edge - Skills enhancement for career development.

2024-02

Python Basics - Fundamental knowledge of Python programming.

2024-01

Android Development - Knowledge in developing Android applications.

2023-11

Git Version Control - Git Essentials for Developers: init, branch, stage, commits, push and pull

2025-10