Kavya P Nair

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PROFILE

Computer Science and Engineering student with a strong foundation in C++, Python, and Java. Passionate about data structures, problem-solving techniques, and data processing. Interested in Data Science and Analytics, with a focus on developing efficient and data-driven solutions.

EDUCATION

Bachelor of Technology in Computer Science and Engineering, CGPA:8.59 2022 – present
Amrita Vishwa Vidyapeetham Kollam, India

Higher Secondary in Computer Science , Percentage : 91 2020 – 2022
Viswabharathy Public School Trivandrum, India

Secondary School , Percentage : 92 2019 – 2020
Sree Chithira Thirunal Residential Central School Trivandrum, India

SKILLS

Expertise in various programming languages
Database Management
Team work
Adaptability

PROJECTS

Sentimental Analysis 2023 – 2024

Working on sentiment analysis of YouTube comments using machine learning algorithms to classify sentiments as positive, negative, or neutral. Implementing text preprocessing, feature extraction, and supervised learning techniques to enhance classification accuracy. Developing an automated pipeline for efficient comment extraction, processing, and sentiment detection to improve understanding of user opinions and feedback.

NLP Project, Data Annotation 2023 – 2023

Worked on an NLP project to enhance sentiment analysis model accuracy by creating a high-quality labeled dataset. Utilized data annotation techniques to categorize text based on sentiment (positive, negative, neutral) using structured guidelines and annotation tools.

AES file sharing system 2024

Worked as a team to develop a secure file-sharing system using **AES (Advanced Encryption Standard)** for data encryption and protection. Built a **Flask-based web interface** for secure file upload, download, and key management. Implemented **AES-256 encryption** with Python's Cryptography library and integrated **SQLite/MySQL** for user authentication and file metadata storage, ensuring secure data exchange.

Fire detection and Suppression System using Arduino 2024

Collaborated on developing a **Fire Detection and Suppression System** using **Arduino** for real-time fire monitoring and automated response. Integrated **temperature and flame sensors** to detect fire hazards and trigger alarms. Implemented an **automatic suppression mechanism** using a relay-controlled extinguisher. Designed an efficient and reliable system to enhance fire safety through early detection and rapid response.

INTERNSHIP

MERN STACK DEVELOPMENT 2024 – 2024

Nestsoft Technomaster Kochi

Completed an introductory internship in MERN stack development, where I gained basic hands-on exposure to MongoDB, Express, React, and Node.js. The internship focused on foundational concepts of full-stack development, including setting up simple web applications, understanding backend APIs, and working with databases.

COMMUNITY OUTREACH PROGRAM

Cyber Safety Awareness Program

Conducted a digital security and privacy awareness initiative for 8th-grade students at Amrita Vishwa Vidyapeetham.

- Educated students on the risks associated with social media and the importance of online safety.
- Promoted responsible digital behavior and best practices for protecting personal information.

COURSES

- Data Analytics and Visualization Job Simulation,Accenture
- Introduction to Artificial Intelligence, Infosys
- Python for data science,IBM Developer Skills Network

LANGUAGES

English,Malayalam
— Read,Write ,Speak,Understand

Hindi
— Read,Understand,Write

AREAS OF INTEREST

- Data Analysis and Visualization
- Data Cleaning and Preprocessing
- Statistical Analysis and Reporting

HOBBIES

Volunteering **Problem Solving**