

# Sreya P Sivan

Kochi, Kerala

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## Profile Summary

Detail-oriented Computer Science Engineering student with foundational skills in data analysis, SQL, and Python. Experienced in analyzing datasets, building analytical modules, and deriving insights through AI-based projects. Strong analytical thinking, communication, and teamwork abilities with a willingness to learn and adapt to new technologies.

## Technical Skills

**Data Analysis:** Excel (formulas, charts, basic Pivot Tables), SQL (basic queries, filtering, aggregation)

**Programming:** Python (basics of Pandas, NumPy)

**Databases:** MySQL

**Visualization:** Power BI / Tableau (basic familiarity)

**Soft Skills:** Analytical thinking, problem-solving, communication, teamwork, attention to detail

## Experience

### Software Engineering Intern

Mar 2025 – Apr 2025

Luminar Technolab, Kochi

- Worked with structured data and backend systems using Python and MySQL.
- Assisted in integrating REST APIs and validating data flow between systems.
- Improved problem-solving and analytical skills through real-world project exposure.

## Projects

### AI-Based Student Engagement Monitoring System (Major Project)

*Python, Pandas, NumPy, OpenCV, MediaPipe, TensorFlow, MySQL*

- Collected and processed real-time facial and posture data to measure student engagement levels.
- Performed data preprocessing and feature extraction using Python (Pandas, NumPy).
- Designed attention and engagement scoring metrics based on eye movement, facial expressions, and posture patterns.
- Stored structured engagement data in MySQL and analyzed trends across sessions.
- Created basic analytical dashboards to visualize focus trends, engagement distribution, and time-based patterns.

### Outpass Management System – Data Analysis Module

*Python, SQL (MySQL), Excel*

- Analyzed student outpass request data to identify frequency patterns and peak usage periods.
- Used SQL queries to filter, aggregate, and summarize outpass records by department and date.
- Cleaned and organized datasets using Python for reporting and analysis.
- Created Excel-based reports and charts to present approval trends and system usage insights.

### Student Performance Data Analysis Project

*Python, Pandas, NumPy, Excel*

- Analyzed academic performance datasets to study the relationship between attendance, internal marks, and final results.
- Performed data cleaning, handling missing values, and basic statistical analysis.
- Used Pandas to compute averages, distributions, and performance comparisons.
- Visualized key insights using Excel charts to support data-driven conclusions.

## Education

### B.Tech in Computer Science and Engineering

2022 – 2026

APJ Abdul Kalam Technological University

CGPA: 7.72

## Certifications

Crash Course on Python (Techmindz) — AI for Students – Generative AI (NxtWave) — Introduction to Cloud Computing (IEEE)