

AVIN P S

Data Scientist / ML Engineer

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Summary

Ambitious 3rd-year Computer Science & Engineering student specializing in Data Science with hands-on experience in developing and deploying AI-based applications. Combines a strong foundation in Python, Computer Vision, and Data Analysis with a passion for solving complex, real-world problems. Seeking internship opportunities to apply self-taught expertise in building high-performance models and data-driven solutions.

Skills

Languages: Python (Advanced), SQL, JavaScript/TypeScript (Basic).

Data Science Libraries: Pandas, NumPy, Matplotlib, Seaborn (for visualization).

Machine Learning & AI: Computer Vision - OpenCV, Object Detection (YOLO), LLM Integration

Web Development: Frameworks - React, Streamlit | HTML, CSS (Basics)

Deployment - Cloud/DevOps: Vercel, Git, GitHub.

Analytical Abilities: PDF Parsing, Data Cleaning, Exploratory Data Analysis (EDA), Descriptive Statistics

Projects

AI Personal Health Coach | *Python, Computer Vision, LLMs* **February 2026 – Present**

- **Architecting an AI-powered nutrition intervention system** to help people achieve their nutritional and health goals
- Designing a Computer Vision pipeline to analyze meal photos and quantify nutritional content from unstructured image data.
- Developing a recommendation engine that cross references food intake with user medical records to generate clinically adaptive diet plans.

KTU Result Analyser | *React, Typescript, PDF Parsing, LLM-Gemini API, Vercel* **December 2025 – February 2026**

- **Engineered a web-based automated result parser** to extract and structure student performance data from complex university PDF files.
- Implemented custom logic to identify subject codes and credits, automatically calculating SGPA and eliminating manual data entry errors.
- Designed a "Department-Wise Report" feature that aggregates individual results into a comprehensive, downloadable analysis for faculty use.
- Deployed the full-stack application on Vercel, delivering a live, accessible tool for students to check and analyze results instantly.

SpaceX Falcon 9 Landing Prediction (IBM Capstone) | *Python, SQL, Scikit-Learn, Plotly Dash* **January 2026**

- **Developed an end-to-end machine learning pipeline** to predict the successful landing of Falcon 9 rocket first stages, utilizing data from the SpaceX API and web scraping.
- Performed rigorous data cleaning and Exploratory Data Analysis (EDA) using SQL and Pandas to identify key success factors like payload mass and orbit type.
- Designed interactive geospatial analytics with Folium and a real-time performance dashboard using Plotly Dash to visualize launch outcomes across global sites.
- Trained and hyper-tuned 4 classification models (Logistic Regression, SVM, Decision Tree, KNN), achieving a best-in-class accuracy of 83% with SVM and KNN.

Awards & Certifications

- **IBM Data Science Professional Certificate – Coursera (2026):** Completed 12 practical hands-on courses on Python, Databases & SQL, Data Analysis, Data Visualisation, Machine Learning, GenAI and a Capstone Project

Education

B.Tech Computer Science & Engineering (Data Science)

Graduation Year: 2027

APJ Abdul Kalam Technological University, IES College Of Engineering, Thrissur, Kerala, India

CGPA: 8 / 10