

Abhijith P

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TECHNICAL SKILLS

Languages: Python, JavaScript (ES6+), HTML, CSS

Libraries & Frameworks: React, Node.js, Express, Flask, Jest, Pandas, NumPy, Matplotlib, Scikit-learn

Developer Tools: Git, GitHub, Docker, Postman, Google Cloud Platform

PROJECTS

Halo CME Detection Pipeline | *Python, Pandas, Matplotlib, Flask*

July 2025 – Aug 2025

- Engineered a data pipeline in Python to ingest and normalize telemetry from ISRO's Aditya-L1 satellite, processing multiple solar wind data formats ('.cdf', '.nc').
- Implemented a signal processing module using a rolling mean to smooth noisy data and establish a stable baseline for analysis.
- Validated a statistical anomaly detection model achieving over 90% recall and a false-alarm rate below 10% against the CACTus CME catalog.
- Standardized analysis process by creating a configurable script allowing analysts to adjust detection parameters for specific events.

AI Career Coach | *Next.js, React, Prisma, PostgreSQL, Gemini API*

Aug 2025 – Nov 2025

- Developed a full-stack AI Career Coach web application using the Next.js framework to provide users with personalized career-building tools.
- Integrated Clerk for secure user authentication and profile management, and utilized Prisma ORM to manage user data in a PostgreSQL database.
- Leveraged the Google Gemini API to power 3 core AI features: resume analysis, tailored interview question generation, and personalized cover letter drafting.
- Constructed a responsive and modern user interface with Tailwind CSS and Shadcn/UI, ensuring a seamless user experience across all devices.

EXPERIENCE

Data Analyst Trainee

July 2025

MedTourEasy

New Delhi, India

- Selected for a competitive data analytics traineeship, receiving commendations for being a reliable and creative contributor to the team.
- Led a capstone data analysis project, utilizing Python and statistical methods to process and visualize a complex demographic dataset.
- Communicated project outcomes to mentors, presenting findings uncovering a statistically significant, multi-year difference in average lifespan between right-handed and left-handed individuals.

CERTIFICATIONS

- Programming with JavaScript, Meta (via Coursera), 2025
- IBM Professional Certificate in Python for Data Science, AI & Development, Coursera, 2024
- Google Data Analytics Professional Certificate, Coursera, 2025
- Affective Computing (Elite Certificate), NPTEL, 2025
- Oracle Cloud Infrastructure 2023 AI Certified Foundations Associate, Oracle University, 2024

EDUCATION

JCT College of Engineering and Technology

Coimbatore, TN

Bachelor of Engineering (Honours) in Computer Science: 85%

Nov. 2022 – May 2026

Bhavan's Vidya Mandir, Chithali

Palakkad, KL

PCMB (Physics, Chemistry, Mathematics, Biology): 83.8%

June 2021 – July 2022