NAVNEET PRASAD

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TECHNICAL SKILLS

- **Languages:** Python, SQL
- **Data Science & ML:** Bayesian State-Space Modelling, Kalman Filtering, Monte Carlo Simulation, Random Forest, Time-Series Analysis, Scikit-Learn, SciPy, NumPy, Pandas
- **Visualisation & Web:** Streamlit, Plotly (WebGL), Matplotlib, SVG DOM Injection, CSS
- **APIs & Domain Tools:** FastF1 Telemetry API, CAN-bus Telemetry Processing, Cubic Spline Interpolation

PROFESSIONAL EXPERIENCE

Data Analyst Intern | Bluestock Fintech | April 2026 – June 2026 | Remote

- Automated daily NAV-tracking pipelines for mutual funds in Python, standardising data calendar reindexing to achieve 100% reporting accuracy across institutional accounts.
- Migrated relational SQLite databases to an optimised Star Schema architecture, decreasing transactional query execution time by 30%.
- Built interactive Power BI dashboards with predictive risk modelling, saving 15 hours per week in manual reporting for executive stakeholders.

Technical Intern | GGSESTC Bokaro | June 2025 – August 2025

- Developed Python automated extraction scripts for academic research data, cutting parsing latency by 15% across 500+ datasets.
- Maintained software infrastructure and server stability, sustaining 99.9% uptime during peak operational demand.

PROJECTS

AI Fairness Auditor Prototype | Gemini API, Machine Learning | GitHub

- Built an AI bias auditing tool using the Gemini API and machine learning evaluation pipelines, improving demographic parity metrics by 12% on test datasets.

Student Performance Prediction | Python, Scikit-Learn | GitHub

- Developed a machine learning model and analytical workflow to predict student academic performance based on demographic, behavioural, and academic metrics.

Sentiment Analysis of Social Media Posts | Python, Natural Language Processing | GitHub

- Developed a natural language processing model and pipeline to analyse sentiment in social media posts, classifying text data to extract actionable user insights.

F1 Pit-Wall Telemetry Engine | Python, FastF1, Streamlit, Plotly, Antigravity | GitHub

- Processed multi-channel 50Hz telemetry streams (2018–2026) using Bayesian Kalman filters to model tyre degradation, track abrasion, and fuel burn dynamics.
- Engineered a 1,000-run Monte Carlo simulation engine comparing pit-stop strategies while factoring safety car probabilities and driver consistency variance.
- Trained a Random Forest classifier to detect pit windows and built an interactive 2D dashboard with live FIA streams and dynamic championship standings.

RAG | Python, LangChain, LLMs | GitHub

- Built a Retrieval-Augmented Generation (RAG) system to query external knowledge bases using vector embeddings and large language models.

EDUCATION

B.Tech in Computer Science and Engineering (Data Science) | Expected 2028

Guru Gobind Singh Educational Society Technical Campus

Key Coursework: Object-Oriented Programming (OOP), Data Structures & Algorithms, Database Systems (DBMS), Applied Statistics, Data Mining and Data Warehousing

CERTIFICATIONS

- **Data Science:** Cisco Academy, British Airways Job Simulation
- **Analytics:** TATA GenAI-powered Data Analytics, Deloitte Data Analytics Simulation
- **Tools & AI:** Intermediate Excel, Prompt Engineering for ChatGPT by Great Learning