# NAVNEET PRASAD

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## PROFESSIONAL SUMMARY

Data Science & Software Engineering undergraduate specializing in statistical modeling, high-frequency telemetry processing, predictive analytics, and scalable machine learning workflows. Experienced in developing automated data pipelines, optimizing relational schema architectures, and engineering real-time simulation algorithms.

## TECHNICAL SKILLS

- **Programming Languages:** C, Python, SQL
- **Data Science & Machine Learning:** Bayesian State-Space Modeling, Kalman Filtering, Monte Carlo Simulation, Random Forest, Time-Series Analysis, Natural Language Processing (NLP), Scikit-Learn, SciPy, NumPy, Pandas
- **Visualization & Business Intelligence:** Power BI, Streamlit, Plotly (WebGL), Matplotlib, Seaborn, Interactive Dashboards
- **Data Infrastructure & APIs:** FastF1 Telemetry API, CAN-bus Telemetry Processing, SQLite, Star Schema Modeling, REST APIs, Git/GitHub

## PROFESSIONAL EXPERIENCE

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

- Engineered and automated daily NAV-tracking pipelines for institutional mutual funds using Python, standardizing data calendar reindexing and ensuring 100% data integrity and reporting accuracy.
- Architected and migrated relational SQLite databases to an optimized Star Schema, reducing transactional query execution latency by 30% across large-scale datasets.
- Designed interactive Power BI analytics suite integrated with predictive risk modeling algorithms, saving executive leadership 15 reporting hours weekly.

**Technical Intern | GGSESTC Bokaro | June 2025 – August 2025**

- Authored automated Python data extraction and parsing scripts for institutional research, reducing data processing latency by 15% across 500+ complex datasets.
- Managed campus server infrastructure and technical software systems, maintaining 99.9% operational uptime during peak load periods.

## PROJECTS

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

- Engineered an automated AI bias auditing framework using the Gemini API and machine learning evaluation pipelines, boosting demographic parity metrics by 12% across benchmarking datasets.

**Student Performance Prediction | Python, Scikit-Learn | GitHub**

- Constructed supervised machine learning classification models in Scikit-Learn to evaluate and forecast academic performance trends based on behavioral and socio-demographic indicators.

**Sentiment Analysis of Social Media Posts | Python, NLP | GitHub**

- Developed an end-to-end Natural Language Processing (NLP) pipeline for real-time social media sentiment classification, translating unstructured textual data into actionable insights.

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

- Processed multi-channel 50Hz telemetry streams (2018–2026) with Bayesian Kalman filtering, modeling tire degradation curves, surface abrasion, and fuel burn dynamics in real time.
- Implemented a 1,000-iteration Monte Carlo simulation engine to evaluate race strategy scenarios under safety car deployment variance and driver consistency metrics.
- Trained Random Forest classification models to predict optimal pit windows and built a WebGL-backed Streamlit dashboard featuring live FIA stream integrations.

## EDUCATION

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

***Guru Gobind Singh Educational Society Technical Campus*** | Bokaro, Jharkhand, India

**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