Parth Parakhiya

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Professional Summary

Master of Applied Computing student with expertise in **full-stack development**, **data analysis**, **data engineering**, and **applied ML**. Experienced in building **scalable web applications**, **benchmarking dashboards**, and **bias-aware ML pipelines**. Skilled in **exploratory data analysis (EDA)**, **statistical correlation**, and **performance evaluation** to drive actionable insights. Proven ability to lead cross-functional teams, design and implement **ETL workflows**, conduct **data-driven decision making**, and ship **production-ready systems** under **Agile/Scrum**. Passionate about applying advanced **data analysis techniques** to deliver measurable business impact.

Technical Skills

Languages: Python, TypeScript, JavaScript, Java, C++, C#, SQL
Web/App: React, Angular, HTML5, CSS3, Flask, FastAPI, Node.js, Django, Spring Boot, SAP UI5
ML/DS: XGBoost, Random Forest, TensorFlow (basics), Scikit-learn, Pandas, NumPy, Feature Engineering
Data/DB: PostgreSQL, MySQL, SQLite, MinIO, ETL, Query Optimization, Data Modeling
Cloud/DevOps: Docker, Kubernetes (familiar), Linode, Azure, GitHub Actions, Jenkins, CI/CD, Postman
UI/UX: Figma, Wireframing, Prototyping, Responsive Design (WCAG)
Practices: Agile/Scrum, Test-Driven Development, API Design, Secure Coding, Peer Code Review

Professional Experience

Data Analytics Intern – AI & Performance Prediction *May 2025 – Aug 2025*
Jaguar Land Rover (JLR) | Windsor, ON, Canada (Remote)

- Built a centralized **GPU benchmarking database** and ML pipeline to predict KPI performance across architectures.
- Engineered **46+ derived features**; applied **exploratory data analysis (EDA)** and trained **XGBoost** and **Random Forest** models achieving **91% accuracy** with **12.37% vendor-bias reduction**.
- Conducted **statistical correlation analysis** to preserve **0.952 Pearson correlation** between raw and bias-corrected benchmarks.
- Deployed interactive **Streamlit dashboards** with a **PostgreSQL backend** for KPI visualization, bias correction, and validation.
- Delivered a **production-ready prototype** with complete technical documentation and handover to JLR R&D.

Operational Head / Web Solutions Lead *May 2023 – May 2024*
SnapGrab Inc. | Mumbai, India (Hybrid)

- Directed a **12-member development team**, delivering **cloud-native web applications** using **Node.js, Django, and MySQL**.
- Designed and optimized **ETL pipelines** and conducted **data analysis** on operational logs, ensuring high availability and consistency.
- Built **real-time reporting dashboards** that automated KPI tracking and provided actionable **data insights**; reduced manual processes by **40%**.
- Enhanced usability with **Excel macros**, **Power BI visualizations**, and **data-driven reporting**.

Research Lead / Developer *Aug 2022 – Apr 2023*
Universal College of Engineering | Thane, India (On-site)

- Led R&D for an **Android fitness application** integrating **biometric sensors** and **music-player automation**.

- Applied **data analysis** on biometric sensor readings to evaluate accuracy and improve feedback loops.
- Published findings in **IJRASET Journal (Vol. 11, Issue IV)** covering performance optimization and evaluation.
- Managed a team of 4 developers, designing **real-time data pipelines** using Bluetooth APIs.

Associate Web Developer Intern *Sep 2021 – Mar 2022*
NeoDocto Inc. | Bangalore, India (Remote)

- Developed **responsive React components** for health-education platforms, improving UI/UX and accessibility.
- Built RESTful **.NET APIs** with **MySQL integration**, supporting real-time data reporting.
- Automated **ETL workflows** and performed **data analysis** on marketing datasets to deliver actionable insights via dashboards.

Key Projects

CrediWise — AI-Powered Loan Evaluation (TD Bank context) *Jan 2025 – Apr 2025*

- Built secure **APIs** and an ML-driven **rule engine** with **Angular, Spring Boot, and Python**; achieved **87% prediction accuracy**.
- Conducted **loan data analysis** to identify trends in applicant eligibility and improve decision logic.
- Designed normalized **MySQL schemas**, applied **query optimization**, and reduced response latency by **35%**.

DataCascade — Distributed File Storage System *Jan 2025 – Apr 2025*

- Developed **fault-tolerant REST APIs** with **Django + MinIO** for replication, chunking, and retrieval.
- Deployed with **Docker** and integrated monitoring; performed **system log analysis** to ensure proactive diagnostics.
- Enforced **access-control** and validated latency under **200ms** across **data stress tests**.

DataCrafters — Automotive Intrusion Detection (CAN Bus) *Sep 2024 – Dec 2024*

- Built a real-time **ETL pipeline** with **Python and TensorFlow**; applied **time-series data analysis** on CAN bus logs to achieve **96% anomaly detection accuracy**.
- Created **Streamlit dashboards** for real-time visualization of intrusion patterns.

WeTeachIT — Interactive Java Learning Platform *May 2020 – Jan 2021*

- Designed a modular learning platform (**HTML/CSS/JS + MySQL**) and performed **user activity analysis** to improve onboarding; reduced time by **40%**.
- Added **progress tracking** and **gamified quizzes** to increase retention, backed by **usage data analysis**.

Education

Master of Applied Computing (GPA: 3.56/4.0) *May 2024 – Present*
University of Windsor | Windsor, Ontario, Canada

Bachelor of Engineering, Computer Science (GPA: 3.3/4.0) *May 2019 – May 2023*
University of Mumbai | Thane, India

Certifications & Awards

Endorsement Letter: Jaguar Land Rover (JLR) — AI & Performance Prediction Internship (Certificate)
Internship Certificate: Web Development Internship, NeoDocto Inc. (Certificate)
LinkedIn Learning: Advanced Agile | Hadoop | Spring Boot | GitHub Security
Published Research: *Fitness Application with Music Player and Heart Rate Measurement*, IJRASET (Certificate)
Award: Runner-Up — Blind Coding Competition, Universal College of Engineering