

# PRANAV MUNDAKKAL

Dublin, Ireland

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Eligible to work in Ireland without a permit

## Professional Summary

Results-driven **Data Professional** with **1 year of experience** in developing machine learning models, performing statistical analysis, and generating data-driven business insights. Skilled at translating complex datasets into clear, actionable strategies, contributing to:

- Improved ROI through data-led marketing analysis
- Reduced processing time by optimizing ETL workflows
- Delivery of machine learning pipelines, market mix modeling, and cloud-based solutions

Holds an MSc in Big Data Analytics (Griffith College Dublin) with strong capability in leveraging data to support business transformation, operational efficiency, and customer success.

## Education

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| • <b>Griffith College, Dublin</b>   | 2024 – 2025 |
| • <i>MSc in Big Data Management and Analytics</i>   |             |
| • Modules: Big Data (Hadoop, Spark), Data Analytics & Visualization (Python, R, Tableau), Machine Learning, Data Ethics, Cloud Computing. |             |
| • <b>Sahrdaya College of Engineering, Kerala, India</b>   | 2019 – 2023 |
| • <i>BTech in Computer Science</i>  |             |
| • Modules: Programming (C, C++, Java, Python), Databases (SQL, NoSQL), Web Development, DSA, Networks, Operating Systems.                 |             |

## Technical Skills

**Programming & Data:** Python, R, SQL, C, HTML/CSS, JavaScript

**Machine Learning:** Scikit-learn, XGBoost, TensorFlow, NLP, Predictive Modelling, Feature Engineering

**Big Data Technologies:** Apache Spark, Hadoop, Cassandra

**Cloud Platforms:** AWS (S3, EC2, Lambda), Google Cloud Platform, Firebase

**Visualization:** Tableau, Power BI, Matplotlib, Seaborn, Excel

**Tools & Documentation:** Git, Docker, Jupyter Notebook, Jira, VS Code

**Databases:** PostgreSQL, MySQL, MongoDB

**Analytics & Statistics:** A/B Testing, Time-Series Analysis, Statistical Modelling, GDPR-compliant Data Handling

**Soft Skills:** Analytical thinking, Attention to detail, Collaboration, Communication, Adaptability, Problem-solving

## Experience

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- **Data Analyst** Jan 2024 – Jan 2025
  - *QBay Career, India*
  - Performed in-depth analysis of learner performance, enrollment trends, and engagement metrics to identify friction points, contributing to improved student retention and curriculum optimization.
  - Investigated and reproduced data anomalies using **SQL** and **Python**, supporting root-cause analysis and enhancing platform reliability across learning systems.
  - Designed automated reporting workflows and optimized ETL processes, reducing manual reporting time by **20%** and improving data freshness for business decision-making.
  - Developed interactive dashboards in **Power BI** and **Tableau** to track KPIs such as course completion, dropout risk, and lead-to-conversion performance.
  - Collaborated with product, engineering, and operations teams to streamline data pipelines, improving data consistency and reducing reporting discrepancies across departments.
  - Documented analytical findings, data flows, and issue logs to support internal audits and continuous process improvement.
  - Trained and mentored junior analysts in SQL, dashboard development, and data quality best practices, strengthening the analytics capabilities within the team.
- **Web Application Developer Intern** Jun 2023 – Dec 2023
  - *Mentika, India*
  - Assisted in building responsive web applications using **Python (FastAPI)** and integrated backend APIs.
  - Used **Firebase** for cloud storage and real-time database synchronization.
  - Created and maintained technical documentation, user flows, and feature descriptions.
  - Collaborated with developers and testers to debug application errors and verify performance improvements.

## Projects

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### Wind Turbine Anomaly Detection

Engineered an end-to-end anomaly detection pipeline using SCADA time-series data, integrating XGBoost and SARIMAX for fault prediction. Implemented feature engineering, model explainability, and automated validation to enhance turbine reliability monitoring accuracy.

### Social Media Web Application

Developed a scalable full-stack application using FastAPI with Firebase (Firestore + Authentication), leveraging asynchronous APIs, modular CRUD services, and real-time data synchronization. Implemented secure deployment workflows and CI-ready technical documentation.

### Data Analysis Dashboard (Logistics)

Designed and automated Tableau dashboards using logistics datasets to analyze shipment flows, delivery efficiency, and operational bottlenecks. Built optimized SQL data models and KPI intelligence layers to detect anomalies in transit times, route performance, and load utilization through statistical pattern detection.

## Certifications

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- Google Data Analytics Professional Certificate (2025)
- Data Analytics Bootcamp - Udemy (2025)
- Deloitte Data Analytics Job Simulation – Forage (2025)