

# Pavan Jangid

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## Professional Summary

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Data Scientist/Business Analyst with almost 4 years of experience includes delivering analytics, machine learning, Gen AI, and automation solutions across power generation, ed-tech, and document intelligence domains. Specialized in predictive maintenance, time series forecasting, and real-time KPI dashboards, driving measurable improvements in equipment reliability and operational efficiency. Hands-on with Python, SQL, Databricks, Streamlit, and BI tools to build end-to-end ML workflows from data ingestion to deployment and monitoring. Proven ability to partner with cross-functional teams, translate business problems into data-driven solutions, and communicate insights to technical and non-technical stakeholders.

## CORE COMPETENCIES

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- **Advanced Analytics:** Predictive Modeling, Time Series Forecasting, Anomaly Detection, Statistical Analysis
- **Machine Learning:** Supervised & Unsupervised Learning, Feature Engineering, Model Selection and Optimization
- **Gen AI & Agentic AI:** LLM Prompt Engineering, Document QA, Chatbot Solutions
- **Data Engineering:** Data Cleaning Pipelines, EDA, Data Quality Checks, Automation Scripts
- **Business Intelligence:** KPI Dashboard Design, Real-time Monitoring Systems, Automated Reporting
- **Technology Stack:** Python (pandas, NumPy, scikit-learn, TensorFlow/Keras), SQL, Databricks, Streamlit, Power BI, Tableau, Git, SAP PM, WhatsApp APIs, OCR Engines
- **Domain Expertise:** Predictive Maintenance, OCR/NLP, Chatbot Development, Process Automation

## TECHNICAL SKILLS

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- **Programming & ML:** Python (pandas, NumPy, scikit-learn, TensorFlow/Keras basics), Regression & Classification Models, Clustering, Anomaly Detection
- **Data & Cloud:** SQL, Databricks (Delta Tables, Notebooks, Jobs), Basic ETL & Data Pipelines
- **Visualization & Apps:** Power BI, Tableau, Streamlit, Excel (Macros)
- **Tools & Platforms:** Git, SAP PM, WhatsApp APIs, OCR Engines

## Experience

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### Data Scientist/Business Analyst – Analytics Center of Excellence

Jun 2025 – Present

Adani Power Ltd.

- Built **predictive maintenance models** for critical power plant equipment, achieving **95%+ prediction accuracy** and enabling proactive maintenance interventions.
- Established **Databricks-based unified analytics workflows** for scalable EDA, feature engineering, and ML experimentation across plant-wide operational data.
- Developed **Streamlit dashboards** for real-time KPI and anomaly monitoring, improving transparency and accelerating data-driven executive decision-making.
- Collaborated with **engineering, operations, and leadership teams** to scope high-impact use cases, define KPIs, and deploy analytics solutions into production workflows.
- **Impact:** Reduced unplanned downtime for key assets and contributed to **significant maintenance cost savings** through data-driven predictive interventions.

## Data Science Intern – Tech Platform

Jan 2025 – May 2025

Adani Skills & Education

- Designed and implemented **data cleaning and validation pipelines** to ensure high-quality datasets for analytics and reporting.
- Performed **exploratory data analysis (EDA)** to uncover trends and insights in candidate and placement data, directly informing talent strategy decisions.
- Developed **WhatsApp chatbot solutions** to automate candidate queries and outreach, significantly improving engagement at scale.
- Built **interactive dashboards** to provide near real-time visibility into talent supply, demand, and placement metrics for business stakeholders.
- **Impact:** Improved placement tracking accuracy and engagement efficiency, enabling more timely, data-driven talent management decisions.

## Data Analyst

Apr 2024 – Jul 2024

River Edge Analytics Pvt. Ltd.

- Strengthened **Python development skills** by building modular, production-ready analytics and automation scripts leveraged across multiple projects.
- Gained exposure to **Node.js** for extending backend and integration capabilities within data and analytics products.
- Led **LLM prompt engineering** and integrated OCR features (achieving up to ~ 97% **accuracy**) into document-processing workflows to enhance product functionality.
- Automated repetitive **reporting and data processing** tasks using Excel macros and Python, significantly reducing manual effort.
- **Impact:** Built foundational components and reusable utilities that later accelerated advanced ML, automation, and data engineering initiatives.

## Assistant Manager – Mechanical Maintenance (Data-Driven Initiatives)

Jan 2021 – Jun 2023

Adani Power Ltd.

- Collaborated with **maintenance technicians** to label historical SAP PM work orders and trained a **logistic regression classifier** for task-type prediction.
- Automated **text-based work order classification** using Python and NLP, reducing manual triage time and improving consistency in how tasks were routed.
- Analyzed **failure patterns and maintenance history** with Python to surface recurring issues and support preventive maintenance planning.
- **Impact:** Introduced data-driven maintenance decision-making and reduced manual workload for the maintenance team by streamlining work order processing and analysis.

## Projects

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- **DocuQuery AI Lite (Gen AI, NLP, Streamlit):** Built a document analytics app using Streamlit and Llama 2 for advanced PDF search and retrieval, enabling semantic search and question answering over business documents.
- **Combustion Optimization (Predictive Modeling):** Developed machine learning models to optimize boiler combustion parameters, targeting lower heat rate and reduced fuel costs for thermal power operations.
- **Clinker Prediction (Deep Learning, Time Series):** Implemented deep learning models to predict catalytic clinker formation in advance, lowering the risk of equipment damage and unplanned outages.

## Education

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### **MBA (PGDM) - Big Data Analytics**

*Jul 2023 – Jun 2025*

*Adani Institute of Digital Technology Management*

*CGPA - 3.54/4.33 (81.6%)*

### **B.E. - Mechanical Engineering**

*Jul 2017 – Jun 2020*

*Dr. S. & S. S. Ghandhy Govt. Engg. College, Surat*

*CGPA - 8.52/10 (80.2%)*

## Certifications

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- Azure Databricks (DP-3011) - **Microsoft**
- Essentials Automation – **Automation Anywhere**
- EDA – **Coursera**
- Get Started with Python – **Coursera**
- Introduction to SQL – **Simplilearn**