Parth Mehandru

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Education

PES University Bengaluru, Karnataka
B.Tech - Electronics and Communication - CGPA - 8.22 *Sept. 2022 - May 2026*

Experience

Data Analyst Intern May 2025 - July 2025
Labmentix Edtech Private Limited *Bengaluru, Karnataka*

- Analyzed businesses data using SQL, Excel, and Power BI to uncover trends and inefficiencies in operations.
- Designed dashboards to visualize performance KPIs, leading to actionable insights and improved team decision-making.
- Conducted exploratory analysis and data cleaning using Power Query for business reporting

Social Media Marketing Intern May 2025 - June 2025
Pledge A Smile Foundation *New Delhi, India*

- Collaborated on awareness and outreach campaigns; enhanced campaign reach through posters.
- Used structured planning to evaluate impact and optimize outreach efforts.

Projects

Analyzing Adidas Revenue | *PySpark, Spark SQL, DataBricks, Python, Data Ingestion* | Link

- Built a PySpark data pipeline on Databricks to injest, clean and analyze Adidas US sales data.
- Used Spark SQL to identify trends in revenue, top-performing regions, and high-contributing products

House Market | *GCP, Power BI, Power Query, DAX* | Link

- Developed a comprehensive real estate market analysis dashboard by integrating BigQuery for data warehousing and Power BI to implement a scalable, cloud-based reporting architecture.
- Used DAX functions to calculate key metrics like offer-to-purchase ratio, year-over-year growth, and SQM pricing.

Sleep Health | *ML, Python, NumPy, Pandas, Matplotlib, Streamlit* | Link

- Performed EDA on a dataset of 132 patient records covering 12 health parameters, leveraging Python, Pandas, Matplotlib and Plotly to identify trends in sleep quality, stress levels and disorders.
- Designed, trained and compared 5 ML models (Linear Regression, Polynomial Regression, KNN, Decision Tree, Random Forest) achieving the highest accuracy of 95% with Random Forest for predicting sleep disorders.
- Built and deployed an interactive Streamlit application enabling real-time predictions.

Breast Cancer Predictor | *Python, Flask, ML, Pandas, NumPy, REST APIs, AWS EC2, Git, Linux* | Link

- Developed an end-to-end machine learning pipeline for breast cancer prediction using Random Forest Classifier; achieved 95.61 percent accuracy and integrated model into web app for real-time inference.
- Implemented RESTful APIs using Flask, incorporated user input via an HTML front-end, and performed model inference through real-time input binding and JSON serialization techniques.
- Deployed the application on AWS EC2, configured Linux AMI instances, SSH key-based authentication, and public endpoint exposure, ensuring secure and scalable access to the ML model.

Technical Skills

Languages: Python, SQL
Frameworks: Flask, PySpark
Libraries: Pandas, NumPy, Matplotlib, Seaborn, Scikit-Learn
Developer Tools: Git, Google Cloud Platform, AWS, Snowflake, Streamlit, DataBricks
Analytics & Visualization: Excel, Power BI, A/B Testing, KPI Tracking

Achievements

- 5 Star in SQL on HackerRank
- State Rank 131 in International Math Olympiad
- University Merit Scholarship Recipient
- 3rd Runner-Up in International ABACUS Competition, New Delhi
- Gold Medal in International English Olympiad
- 3rd Runner-Up in State Level ABACUS Competition, Jalandhar