DENISH SAVANI

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SUMMARY

Detail-oriented **Data Science** professional with a strong background in **Machine Learning** and **Data analysis**. Proficient in **Python**, **SQL**, **Power BI**, **QlikSense** and **AWS** with hands-on experience in machine learning and Data Analysis.

EDUCATION

M.Sc. Applied Mathematics (University of Koblenz)   January/2021 - Present
Relevant Coursework
Data Science, Optimization, Machine Learning, Artificial Intelligence, Applied Mathematics, Financial Mathematics.

Bachelor of Automotive Engineering (Gujarat Technological University)   August/2015 - June/2019

SKILLS

Programming Language :	Python, Scala
Relational Databases & Cloud :	BigQuery, MySQL, AWS, Microsoft SQL
Data Visualization :	Tableau, Power BI, Qliksense, Matplotlib, Seaborn, ggplot2, Plotly
Machine Learning Libraries :	Pandas, Numpy, SciPy, Scikit-learn, Gym
ETL Tools :	Altreyx, AWSGlue

EXPERIENCE

Working Student - Data Analytics and Business Intelligence   February 2024 - Present
Bosch Thermotechnic   *Wernau, Germany*

- Participate in development of **Power BI dashboards** for **sales**, inventory, and **product analytics**.
- Utilized **SQL** for **ETL** processes into **Power BI**, ensuring **data integrity**.
- Implemented **Python Selenium** for task **automation**, enhancing productivity.
- Developed custom **Power Apps** for **workflow automation** and **efficiency**.
- Collaborated with **stakeholders** to **translate business needs into technical solutions.**

Data Analyst - Intern   July 2023 - Jan 2024
Robert Bosch   *Reutlingen, Germany*

- Created **automated ETL** workflows.
- Developed **algorithms** to identify scrap part causes using **pandas, numpy, scikit-learn, scipy**.
- Conducted **data preparation, cleaning, and encoding**.
- Extracted data from diverse sources using **PySpark**.
- Created insightful **dashboards** using **DAX measures and Power Query** in **Power BI** for **data analysis**.
- Enhanced **user-friendliness** and **Optimize** code of devloped solution.

Data Analyst - Intern   February 2023 - June 2023
Ford Motor Company   *Köln, Germany*

- Supported the creation of **dashboard** requirements with the responsible department.
- Identified appropriate data sources and elements.
- Extracted data from **databases** using **SQL queries**.
- Created **ETL pipelines** with **Alteryx** to feed data into **Qlik Sense dashboards**.
- **Collaborated with stakeholders** to ensure alignment between business needs and technical solutions.

ACADEMIC AND PERSONAL PROJECTS

COVID-19 and AI
- Gathered COVID-19 cases, symptoms, and vaccination data using **automated ETL processes** and **data scraping**.
- Developed an interactive **web-based dashboard** with **Dash** and **Plotly** for dynamic data visualization.
- Implemented m**achine learning** algorithms (**Random Forest, Gradient Boosting, Logistic Regression**) for predicting COVID-19 infection based on symptoms.

Random Population Generation Using Local Search Optimization Method
- Integrated **local search optimization** methods into population generation frameworks using **Python**.
- Employed **heuristic algorithm**s and **neighborhood** exploration to optimize population structures.
- Conducted empirical evaluations and **case studies** to analyze the impact on diversity, convergence speed, and solution quality.
- Contributed to a nuanced understanding of **optimization problem-solving**.

IT Salary Analysis of Germany
- Conducted Data Discovery, **Wrangling**, **Exploratory data analysis (EDA)** for IT salary data.
- Analysed data from 1200+ IT professionals in Germany.
- Utilized statistical techniques: **correlation analysis** and **regression**.
- **Visualized** findings using **Plotly, Matplotlib, Seaborn**.

CERTIFICATES

- **Python Development for Machine Learning**.
- **SQL for Data Science**.
- **Power BI - Data Analytics Essentials with Power BI**.
- **Data analytics essential with Python**.

LANGUAGES

- English (C1)
- German (B1)
- Hindi (C2)