

# DENISH SAVANI

+49 15906441525 ◇ Koblenz, Germany

denishsavani25@gmail.com

## 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

---

<b>Programming Language :</b>	Python, Scala
<b>Relational Databases &amp; Cloud :</b>	BigQuery, MySQL, AWS, Microsoft SQL
<b>Data Visualization :</b>	Tableau, Power BI, QlikSense, Matplotlib, Seaborn, ggplot2, Plotly
<b>Machine Learning Libraries :</b>	Pandas, Numpy, SciPy, Scikit-learn, Gym
<b>ETL Tools :</b>	Altrex, 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 developed 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 **machine 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 algorithms** 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)