Dharmik Dave

Data Scientist

Harnessing the power of data to drive progress, I use Python to turn raw information into actionable insights. As an aspiring data scientist, I blend my coding skills with a keen understanding of optimization techniques to reveal the hidden potential within data. I am passionate about solving problems creatively and developing solutions that make a significant impact. Picture a coding expert with a knack for problem-solving—that's me!

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EDUCATION

MSc Mathematical Modelling Simulation and Optimization
University of Koblenz

09/2022 - Present

Bachelors in Mechanical Engineering
G. H. Patel College of Engineering and Technology

12/2018 - 12/2021

WORK EXPERIENCE

Quality Assurance Engg.
Metal Cast Engg. Inc.

01/2021 - 12/2021

Achievements/Tasks

- Maintained quality of manufactured parts through inspection plans & data analysis. Reduced defects, collaborated with production for process improvement, and ensured compliance with quality standards.

Internship Trainee
Suryadeep Alloy Steel Casting Ltd

06/2020 - 06/2020

Achievements/Tasks

- During my one-month internship at a casting foundry, I gained valuable hands-on experience in quality control procedures for cast metal parts. This included learning about different casting processes and assisting with inspections to identify potential defects. This experience provided a strong foundation for understanding the importance of quality control in manufacturing

SKILLS

Python · Statistical Analysis and Modelling (SciPy) · SQL · Git · Data Analysis (Pandas, NumPy) · Numerical Analysis · Optimization

PERSONAL PROJECTS

Lanchester model for warfare (05/2024 - Present)

- Developed a Python-based Lanchester Model of Warfare tool for simulating combat scenarios, optimizing strategies, and visualizing results, aiding military strategists, historians, educators, and game developers in understanding combat dynamics.

Data Wrangling in Medical Field

- Developed a data wrangling pipeline for medical datasets, improving data quality and consistency. Extracted, cleaned, and transformed patient data for analysis, supporting clinical research and enhancing decision-making in healthcare.

Data Analysis in Hospitality Domain

- Analyzed customer data in the hospitality industry to uncover trends and insights. Improved business strategies by examining occupancy rates, customer preferences, and operational efficiency, ultimately enhancing guest experiences and boosting revenue.

CERTIFICATES

Introduction to AI
https://coursera.org/share/b9150cb36e57dd9a0393ef7287d44f3e

Python for everybody
https://coursera.org/share/5459644edd97b19b91545f666cee3297

LANGUAGES

German
Professional Working Proficiency

English
Full Professional Proficiency

Gujrati
Native or Bilingual Proficiency

Hindi
Native or Bilingual Proficiency

Greek
Elementary Proficiency