VIGNESH PRASAD S

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SKILLS:

Excel, SQL, Python, Power Bi, Data Analysis, Data Manipulation, Descriptive Statistics, Inferential Statistics, Problem Solving, Business Sense, Data Modeling, Data Mining.

ACADEMICS:

Post Graduate Program in Hybrid Electric Vehicle Design and Analysis (Skill-lync)	**2023-2024**	
M.Tech in Structural Engineering (Amrita School of Engineering, Ettimadai**)**	**2020-2022**	7.42 CGPA
B.Tech in Mechanical Engineering (Amrita School of Engineering, Amritapuri**)**	**2016-2020**	7.38 CGPA
All India Senior Secondary Examination (VASAVI VIDYALAYA THANEERPANTHAL)	**2013-2015**	74%
All India Secondary School Examination (CHINMAYA VIDYALAYA KOLLENGODE)	**2011-2013**	7.6

PROJECTS:

Capstone Project – Python (July 2025)

- Completed a capstone project to demonstrate Python data analysis skills using NumPy and Pandas.
- Solve structured data cleaning, transformation, and analysis tasks to evaluate readiness for real-world challenges.
- Wrote clean, stepwise code using NumPy for calculations and Pandas for data manipulation with validated outputs.
- Successfully delivered accurate, well-documented analysis showcasing proficiency in Python for data science.

ShopNest Store Project - Power BI (June 2025)

- Executed a retail analytics capstone project simulating ShopNest Store, a leading e-commerce marketplace in Portugal.
- Designed a Power BI dashboard to answer 8 key business questions on sales, orders, payments, and revenue.
- Integrated 9 datasets, performed data cleaning, transformation, and built KPIs with interactive visuals (bar, line, pie, and drill-through reports).
- Delivered insights that improved understanding of revenue growth and customer preferences.

SQL Capstone Project (April 2025)

- Performed a capstone project on an airline database, emulating a real-world system for booking, ticketing, and flight management.
- Aimed to extract operational and customer insights by designing and querying complex datasets.
- Constructed normalised schemas, executed advanced queries with joins, subqueries, and window functions, and enforced constraints for data accuracy.
- Produced optimised reports on passenger trends, seat utilisation, and revenue patterns to support decision-making.

WORK EXPERIENCE:

DGS Technical Services Inc (July 2024 – Present): Trainee Application Design Engineer

- Assisted senior engineers in developing components for diesel fuel day tanks while ensuring compliance with ASME standards.
- Support technical drawing creation, CAD modelling, and specification gathering to meet project and client requirements.
- Generated precise CAD models and technical drawings using SolidEdge and AutoCAD, collaborating with sales teams to align design inputs with customer needs, while completing training on industry best practices.
- Delivered accurate, standards-compliant designs that streamlined review cycles and improved project turnaround time during the probation period.

ACHIEVEMENTS:

Publication: Published a paper on the Household Application of Thermoelectric Generators in the Field of Propagating Power from Waste Heat by utilising the waste heat from the household kitchen stove.