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SANDHIYA V

UNDERGRADUATE STUDENT

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SUMMARY

ECE student with strong interest in Data Science and Data Analytics. Skilled in Python, SQL, Excel, and basic statistics. Currently learning Powerbi for data visualization. Passionate about applying analytical skills to real-world problems through internship opportunities.

AREA OF EXPERTISE

Python Programming	PostgreSQL	Problem Solving
MS Excel	Data Analysis (Beginner)	Matplotlib, Numpy,Pandas

TRAINING & CERTIFICATIONS

- ***Deep Learning Internship (MSME)*** **:** Gained hands-on exposure to the concepts and Model Fundamentals during an Industry-Oriented internship.
- ***PostgreSQL Course (Udemy) :*** Completed, Learning Database Fundamentals and basic SQL queries
- ***Python Training (GUVI & W3school) :*** Completed, Learned database fundamentals, SQL queries, and hands-on exercises
- ***Statistics(Self-Learning):*** Acquired basic knowledge of statistical concepts used in data analysis.
- ***HP Life Course:*** Data Science and Data Analytics Fundamentals
- ***Powerbi*****:** Actively learning and practicing data visualization dashboards

EDUCATION

B.E - Electronic and Communication Engineering

S.A. Engineering College, Chennai

- CGPA : 8.50(till 5th sem)

Higher Secondary Education

Government Girls Higher Secondary School, Kovur

- 74.83%

PROFESSIONAL EXPERIENCE

Footstep Power Generator Using Piezoelectric Sensor

- Designed a cost-effective energy harvesting system using piezoelectric sensors to generate electricity from human footsteps without Arduino.
- Optimized sensor placement and circuit design to improve power output and system efficiency.

Sales Analysis Dashboard

- Built an end-to-end sales analysis project by processing Excel data in PostgreSQL and visualizing insights using Power BI.
- Created an interactive dashboard to analyze regional sales, product performance, and monthly trends for data-driven insights.

Dual Layer Secure Communication

- Validated secure data exchange through testing, strengthening understanding of communication security concepts.
- Improved data confidentiality using authentication and encryption mechanisms.

ADDITIONAL INFORMATION

Languages: Tamil, English, Hindi (ReadingProficiency)
Certification: National level Srinivasa Ramanujan Mathematical Competition, MIT Quiz Competition, Nptel Certificate in (Programming in JAVA, Data Analytics with Python, Python for Data Science and DBMS)