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MD FARHAN
B.E. - Electronics & Communication Engineering
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BRIEF SUMMARY

Final-year Electronics and Communication Engineering undergraduate with strong skills in Data Analytics. Proficient in Python, SQL, Excel, Power BI, and data visualization libraries, with experience in data cleaning, analysis, and generating actionable insights. Passionate about combining engineering knowledge with analytical expertise to solve real-world problems.

KEY EXPERTISE

Python   Pandas   NumPy   Matplotlib   seaborn   Excel   SQL   DBMS   C++

EDUCATION

University Institute of Engineering and Technology	2022 - 2026
B.E. - Electronics & Communication Engineering | CGPA: **6.19 / 10**	

PATNA COLLEGIATE SCHOOL,PATNA, Patna	2020
12th | BSEB | Percentage: **82.60 / 100**	

HIGH SCHOOL BAISI,PURNEA, PURNEA	2018
10th | BSEB | Percentage: **81.20 / 100**	

INTERNSHIPS

HINDUSTAN AERONAUTICS LIMITED(HAL)	02 Jun, 2025 - 01 Jul, 2025

Completed a summer internship at HAL, gaining hands-on experience in assembly and testing of avionics and electronic units. Learned low-level hardware operations, basic assembly language concepts, and component-level diagnostics. Observed defense-grade quality standards and testing procedures under the guidance of experienced engineers in a real-time industrial environment.

CSIR-CSIO CHANDIGARH	10 Jun, 2024 - 10 Jul, 2024

The training successfully provided an in-depth understanding of metamaterial absorbers, their design principles, and wide-ranging applications. Through literature review, simulation methodology, and theoretical design, it was observed that metamaterial absorbers achieve high absorption efficiency (>90%), miniaturization, and tunability compared to conventional absorbers. The study highlights their potential in stealth technology, medical imaging, sensors, telecommunications, and energy harvesting, making them highly promising for future advancements in defense, communication, and healthcare industries.

PROJECTS

HR_ANALYSIS_DASHBOARD

Key Skills: Power BI

Project Link: https://github.com/shaikhfarhan500/HR_ANALYSIS_DASHBOARD

A data analytics project showcasing an interactive Power BI dashboard built from a CSV dataset. It highlights data cleaning, visualization, and key insights through charts and KPIs for better decision-making.

Digital Music Store

Key Skills: SQL

Project Link: https://github.com/shaikhfarhan500/SQL_Music_Store

This project analyzes a music store dataset to uncover insights about artists, albums, tracks, and customer behavior. Using SQL, it explores top-performing artists, best-selling albums, popular genres, and spending patterns.

Hospital Emergency Room Analysis

Key Skills: Excel

Project Link: https://github.com/shaikhfarhan500/Hospital_EmerRoom_Dashboard/tree/main

This project presents an interactive Hospital Emergency Room Dashboard built in Excel. It analyzes patient admissions, demographics, wait times, satisfaction, and referrals to help administrators monitor hospital performance. The dashboard includes KPIs such as total patients, admission rates, wait times, satisfaction scores, and breakdowns by age, gender, race, and referral department, with filters for month, year, and race.

Python_Diwali_Sales_Analysis

Key Skills: Python Pandas NumPy Matplotlib seaborn

Project Link: https://github.com/shaikhfarhan500/Python_Diwali_Sales_Analysis

This project analyzes Diwali sales data to gain insights into customer behavior and improve business strategies.
The analysis focuses on data cleaning, exploratory data analysis (EDA), and deriving actionable insights.
Performed data cleaning and manipulation
Conducted EDA using pandas, matplotlib, seaborn libraries
Improved customer experience by identified potential customers **state, occupation, gender, age group -Improved sales by identifying most selling product categories and products, which can help to plan inventory and hence meet the demands.

CO-CURRICULAR ACTIVITIES

- Participated in workshops on Python Programming, and data analysis.

EXTRA CURRICULAR ACTIVITIES

- Actively participated in sports
- Volunteered in college events and cultural fests, contributing to event management and coordination.

PERSONAL INTERESTS / HOBBIES

- Cricket
- Watching Tech Podcast's

WEB LINKS

- Github - https://github.com/shaikhfarhan500

PERSONAL DETAILS

Gender: Male
Marital Status: Single
Current Address: BOY'S HOSTEL- 3 ,PANJAB UNIVERSITY, CHANDIGERH ,160014, Chandigarh, Chandigarh, India - 160014

Date of Birth: 01 Jan, 2003
Known Languages: Hindi, English
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