

AMAN SINGH

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EDUCATION

Vellore Institute of Technology

B.Tech in Electronics and Communication Engineering **7.7/10**

July 2022 – May 2026

SKILLS

Data Analytics: SQL, Data Cleaning, Data Structuring, KPI Tracking, Reporting, Dashboarding

Programming: Python, SQL, C++

Tools: Microsoft Excel, Power BI, Jira (Basic), Git, GitHub

Core Strength: Analytical Thinking, Problem Solving, Team Collaboration, Communication, Agile Basics

PROJECTS

ElderCare VitalSense – Smart Non-Invasive Health Guardian ↗

2025

- Designed a **health monitoring solution** to analyze physiological signal trends and support early risk identification for elderly care.
- Analyzed **performance metrics and signal patterns** to improve reliability and decision-support accuracy.
- Built dashboards for trend visualization, enabling faster interpretation and insight generation for stakeholders.

End-to-End Sales Forecasting & Business Performance Analysis ↗

2025

- Performed end-to-end data analysis on multi-year sales datasets using **SQL and Python** to identify revenue drivers, trends, and seasonality.
- Built time-series forecasting models to predict future sales and support data-driven business planning and decision-making.
- Generated KPI-based reports and insights, improving sales performance evaluation accuracy by **35%**.
- Tools Used: SQL, Python (Pandas, NumPy), Excel, Power BI

AI Voice Agent Interview Platform ↗ | Next.js, React, n8n, OpenAI

2025

- Designed a structured interview preparation platform, focusing on workflow efficiency and user interaction analysis.
- Automated operational workflows to reduce manual effort and improve system consistency across sessions.
- Analyzed engagement and performance metrics to enhance reliability and overall user experience.

CERTIFICATIONS

- VLSI Design Internship – Maven Silicon ↗
- MERN Stack Development Program – Ethnus Codemithra ↗
- AWS Cloud Practitioner Essentials ↗

EXTRACURRICULAR

- GitHub Open Source Contributor ↗

Contributed to the open-source Chrome Extension “Hinglish AI Translator”, enhancing AI-powered translation accuracy and user experience. Implemented **Hinglish Input Normalization** for improved translation precision.

- Student Coordinator of IEEE Club 2024: Built and maintained personal projects to strengthen hands-on experience with modern web technologies and problem-solving skills.

ADDITIONAL INFORMATION

- Hobbies – Cricket, Carrom