

# 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

**Languages:** Python, SQL, C++

**Data & Analytics:** Data Analysis, Data Cleaning, KPI Tracking, Insight Generation, MySQL

**Technologies:** React.js, Node.js, Express.js, HTML5, CSS3, API Integration

**Core Tools:** Power BI, Microsoft Excel, Jira, GitHub

## 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