

SHRUTI KUMARI

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Education

VIT Bhopal University <i>B.Tech in Computer Science and Engineering</i>	Aug 2022 – Sep 2026
Indian Public School <i>Grade XII (CBSE)</i>	Apr 2020 – May 2021

Technical Skills

- **Programming Languages:** Python, C++, SQL, JavaScript, HTML, CSS
- **Libraries & Frameworks:** Pandas, Numpy, Scikit-Learn, Matplotlib, Seaborn
- **Tools & Platforms:** Git, Power BI, MS Excel, Google Sheets, Streamlit
- **Databases:** MySQL Database, Query Optimization, Database Design

Projects

Detection of Functional Anemia through Non-Invasive Method LINK ↗	Mar 2025
◦ Engineered an IoT-based health monitoring system using Arduino UNO, MAX30100 pulse-oximeter sensor, and Node.js and React stack to non-invasively detect functional anemia through accurate SpO2 and hemoglobin estimation.	
◦ Implemented signal-processing algorithms (PPG filtering and R-index calibration) to enhance real-time data accuracy, resolving hardware voltage mismatches via custom resistor configurations and I2C communication optimization.	
◦ Collaborated on the architecture of the full-stack system, utilizing Node.js and React to present real-time patient health metrics through a comprehensive visualization dashboard, enabling robust decision-making.	
NewsGuard: Real-Time Fake News Classifier LINK ↗	Nov 2024
◦ Developed a real-time fake news detection system by implementing logistic regression and natural language processing (NLP) techniques, achieving a 92% accuracy rate in classifying misinformation from user-submitted articles and text inputs, thereby improving content credibility assessment.	
◦ Enhanced user engagement and accessibility by integrating advanced UI features such as auto-refresh updates, dark mode compatibility, and a minimalistic, responsive overlay interface using Streamlit, resulting in a more intuitive and seamless analysis experience for both technical and non-technical users.	
◦ Tech Stacks: Python, Streamlit, Scikit-learn, NLP	
Hospitality Market Analysis LINK ↗	Sep 2024
◦ Developed a comprehensive Power BI dashboard, integrating over 100 data metrics to diagnose declining market share for a fictional 5-star hotel chain.	
◦ Optimized key performance indicators(KPIs) including RevPAR, ADR, DSRN, Occupancy and Realization%, pinpointing 7 critical underperforming areas.	
◦ Leveraged advanced DAX and data modeling to deliver actionable insights, reducing forecast errors by 25%.	
◦ Performed a time-series analysis of occupancy, revenue trends across seasonal periods, enabling management to implement targeted pricing strategies that boosted peak-season bookings and improved off-season revenue stability.	

Achievements

- Advanced to Round 2 of the Lam Research Challenge (Top 10% among participants)
- Ranked 294 out of 2000+ participants in Code Clash 2025 by Let's Code Community
- Advanced to Round 2 in Nokia's Accelerate Her in Tech' Hackathon

Certifications

• Google Data Analytics Professional Certificate by Coursera	LINK ↗
• Oracle Cloud Infrastructure AI Foundations Associate	LINK ↗
• SQL Advanced by HackerRank	LINK ↗
• AWS Academy Cloud Foundations by AWS Academy	LINK ↗
• Data Analysis Using Python by IBM	LINK ↗