

SHRUTI KUMARI

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Education

VIT Bhopal University

B.Tech in Computer Science and Engineering

Aug 2022 – Sep 2026

Indian Public School

Grade XII (CBSE)

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
- Oracle Cloud Infrastructure AI Foundations Associate
- SQL Advanced by HackerRank
- AWS Academy Cloud Foundations by AWS Academy
- Data Analysis Using Python by IBM

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