SHRUTI KUMARI

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Education

Vellore Institute of Technology   *Sep 2022 – May 2026*
Bachelor's of Technology - Computer Science and Engineering

Indian Public School   *Apr 2020 – May 2021*
Grade XII (CBSE)

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, Figma
- **Databases:** MySQL Database, Query Optimization, Database Design

Projects

Detection of Functional Anemia through Non-Invasive Method   LINK ↗   *Mar 2025*
- Designed and developed an IoT-based health monitoring system using Arduino UNO and MAX30100 sensor to estimate SpO2 and hemoglobin levels for non-invasive anemia detection.
- Applied PPG signal filtering and calibration techniques to improve real-time data accuracy and sensor reliability by reducing noise in raw readings.
- Resolved hardware voltage mismatch issues through resistor tuning and optimized I2C communication, then built a full-stack React and Node.js dashboard to display real-time patient health metrics for faster monitoring and analysis.

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 Realisation% pinpointing 7 critical underperforming areas.
- Leveraged advanced DAX and data modeling to deliver actionable insights, reducing forecast errors by 25%.
- Performed time-series analysis on seasonal occupancy and revenue trends to support data-driven pricing and demand planning decisions.

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** ↗