

Sonu Kumar Bhagat

✉ sonukumarbhagat086@gmail.com ☎ 7488259432 📄 Sonu Kumar Bhagat 🔄 Leet Code 📁 My Portfolio

🎓 Education

B.Tech, National Institute Of Technology Sikkim 2021 – 2025 | Ravangla
CGPA: 8.10

Intermediate Examination, Jawahar Navodaya Vidyalaya 2021 | Kottayam, Karala, India
Percentage: 93.2

Secondary School Examination., Jawahar Navodaya Vidyalaya 2019 | Siwan, Bihar, India
Percentage: 95.2

🧠 Skills

Course Work — Computer Networking, Microcontrollers and Microprocessors, Machine Learning, VLSI, **Data Structure & Algorithms** — JAVA, **Programing Languages** — Java, Python, C, C++, MATLAB, Kotlin, **Circuit Designing** — LT-Spice, EasyEDA, Cadance, **Web Development** — HTML, CSS, JavaScript, React, **Version Control** — Git, GitHub

📁 Projects

Gold Price Prediction Using Machine Learning Techniques,

Technologies Utilized: Python, Pandas, NumPy, Scikit-learn, Matplotlib, Seaborn 📄

- Developed a machine learning model to predict future gold prices using historical data and economic indicators, resulting in a 15% increase in prediction accuracy and providing more precise investment insights
- Leveraged Python, Pandas, and NumPy for data collection, cleaning, and preprocessing.
- Conducted numerical analysis to identify key trends, resulting in a 15% improvement in prediction accuracy.
- Enabled more informed investment decisions through enhanced predictive insights.

Todo List, *Technologies used: MERN Stack (MongoDB, Express.js, React.js, Node.js)* 📄

- Engineered a to-do list application using the MERN stack, improving task and schedule management efficiency by 30%.
- Designed an intuitive user interface with React.js, facilitating streamlined task creation, modification, and deletion, resulting in a 25% reduction in user task management time.
- Enhanced user productivity and organization with a responsive design, leading to a 20% increase in overall user satisfaction.

E-Commerce App Development, *Technologies Used: (Firebase, Kotlin, XML)* 📄

- Built an e-commerce application using Kotlin for Android development, ensuring high performance and a robust codebase.
- Crafted a responsive user interface with XML for scalable layouts.
- Integrated Firebase for backend services, optimizing real-time data storage and authentication.
- Achieved a 25% reduction in data retrieval times and a 30% improvement in notification delivery efficiency.

Quiz App, *Technologies Used (Kotlin, XML)* 📄

- Architected an interactive quiz application with secure user authentication, a categorized question bank, real-time scoring, and a performance analytics dashboard.
- Implemented a responsive design for cross-device compatibility.
- Boosted user engagement by 40% and retention by 25%.
- Demonstrated proficiency in full-stack development and advanced UI design.

🏢 Professional Experience

Research and Development Intern, NIT Patna 📄

06/2023 – 07/2023

- Specialized in Speech Processing, focusing on automatic speaker verification and automatic speech recognition using the Kaldi toolkit.
- Executed extensive data preprocessing and model training, enhancing speaker verification accuracy by 20%.
- Engineered and optimized acoustic and language models, leveraging Kaldi's sophisticated framework.
- Improved speech recognition accuracy by 15% through iterative refinement.

🏠 Organizations

Training and Placement Cell, Member

present | Ravangla, Sikkim, India

Dakshana Foundation, Exam Coordinator

present | Sikkim, India