

B S Rohit

Chennai | rohitbs2004@gmail.com | +91 6383816114 | linkedin.com/in/bsrohit | github.com/BSRohit20 | bsrohit-portfolio.vercel.app/

AI/ML and Full-Stack Developer with extensive hands-on experience in designing, developing, and deploying scalable AI-driven and software solutions. Skilled in computer vision, NLP, deep learning, cloud technologies, and full-stack development, with a strong foundation in algorithms, data structures, and system design. Proven track record of delivering high-impact projects in industrial and research settings, optimizing ML pipelines, and developing real-time applications. Recognized for innovation, problem-solving, and technical excellence through hackathon wins, publications, and successful industrial internships.

Education

SRM Institute of Science and Technology , B.Tech in Computer Science Engineering with specialised in Artificial Intelligence and Machine Learning	Jun 2022 - May 2026
• CGPA: 9.15	
Velammal Vidhyalaya, Theni , Grade-12	June 2021-April 2022
• Marks - 90%	
The Little Kingdom Senior School , Grade-10	June 2019-April 2020
• Marks - 91%	

Professional Experience

Intel® Unnati Industrial Training (<i>Image Sharpening using Knowledge Distillation</i>)	May 2025 - July 2025
• Designed student-teacher pipelines for lightweight image sharpening using Knowledge Distillation.	
• Improved inference speed while preserving perceptual quality in vision tasks.	
• Conducted experiments to evaluate model performance across multiple datasets, optimizing for efficiency and accuracy.	
Research Intern – CVRDE (DRDO), Avadi (<i>Vehicle Detection and Classification using R-CNN and SSD</i>)	June 2024 - July 2024
• Developed real-time detection system using SSD and R-CNN, achieving 95% accuracy.	
• Optimized pipeline to achieve 30% faster inference under diverse conditions.	
• Used Faster R-CNN with ResNet-50 backbone for precise classification.	
Artificial Intelligence Intern – Infosys Springboard (AI-Driven Guest Experience Personalization)	Dec 2024 - Feb 2025
• Built FastAPI-based hospitality platform with DistilBERT and PyTorch for real-time sentiment analysis.	
• Implemented a recommendation engine with scikit-learn using sentiment, behavior, and loyalty tier.	
• Designed admin dashboard (Pandas, Matplotlib, Seaborn) with Slack alerts; containerized deployment using Docker.	

Projects

NET-ARMOR , Cybersecurity and AI-powered Security Automation
• Developed full-stack system using Flask (backend) + React (frontend) with core functions including domain scanning, vulnerability detection, password auditing, and risk scoring.
• Integrated AES-256 encryption, JWT authentication, TOTP-based 2FA; deployed as a Dockerized PWA on Vercel.
• Enabled real-time security alerts and interactive dashboard for vulnerability monitoring.
Smart Energy Distribution and Monitoring Grid System, IoT + ML
• Built IoT-powered grid using ESP32, solar energy panels, and sensors for real-time voltage, current, and power monitoring.
• Developed forecasting models with CatBoost, XGBoost, LightGBM, achieving R ² up to 0.9971.

- Core functions include anomaly detection, live visualization using ThingSpeak, and automated energy usage reporting.

Development and Evaluation of Speech Recognised Voice Bot, Full Stack ML

- Created NLP-based speech recognition system using Python, PyTorch, and SpeechRecognition APIs with 98% real-world accuracy.
- Core functions: real-time voice command processing, response generation, and multi-context conversation handling.
- Published and presented research at IEEE ICSES 2023, receiving recognition for innovation.

SmartChat Multilingual Ticketing System for Museums, Full Stack Web

- Developed a multilingual ticketing platform using React (frontend) + Express (backend) + MongoDB (database) for seamless booking and management.
- Core functions: ticket booking, multilingual support (3+ languages), real-time availability check, and booking history tracking.
- Improved booking efficiency by 40% and enhanced user accessibility.

Skills

Programming & Core CS: Python, C/C++, Java, Data Structures & Algorithms, OOP

AI/ML: TensorFlow, PyTorch, Scikit-learn, NLP, LLMs, Deep Learning, Computer Vision, Speech Recognition

Web & Full-Stack: HTML, CSS, JavaScript, React, Express, Flask, FastAPI, REST APIs, Docker, Vercel

Cloud & Databases: Azure, MySQL, MongoDB, Serverless Deployment

Tools & DevOps: Git/GitHub, CI/CD, Unit Testing, Pandas, Matplotlib, Seaborn

Certifications

- Microsoft Certified: Azure Data Scientist Associate
- Microsoft Certified: AI Fundamentals
- Microsoft Certified: Azure Database Administrator Associate
- Salesforce: Cloud & SaaS Skills
- GitHub Foundations

Soft Skills

Problem-Solving || Analytical Thinking || Communication || Leadership || Team Collaboration || Adaptability || Time Management || Critical Thinking || Attention to Detail || Research & Innovation

Achievements

- Winner of **Capture the Flag 2024** organised by Computational Intelligence department, SRMIST
- Winner of **LLM Healthcare Hackathon 2025** organised by Computation Technologies department SRMIST in association with Directorate of Entrepreneurship & Innovation (DEI) and Institution's Innovation Council
- Co-authored and presented the paper "**Deep Residual Neural Network-based Video Recommendation through Facial Expression Recognition**" at ICICSCS 2023 and "**Prediction and Diagnosis of Cardiovascular Disease Using Cloud and Machine Learning**" at the Springer 7th International Conference on Intelligent Computing and Communication 2024.