

SHASHANK REDDYHALLI RAKESH

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EDUCATION

University of California San Diego

2025 – Present

Master of Science in **Data Science**

Visvesvaraya Technological University

2021 – 2025

Bachelor of Engineering in **Computer Science** and Engineering - 8.9/10 CGPA

EXPERIENCE

Data Scientist Intern — *Connegt Digital*

Feb 2025 – Jun 2025

- Spearheaded end-to-end **data processing** including cleaning, **EDA**, & feature engineering on large business datasets.
- Designed and deployed **predictive models** and **time-series forecasting** solutions tailored to business objectives.
- Worked among multiple teams to visualize, interpret & optimize model outputs for data-driven decision-making.

Research & Development Intern — *Blueed*

Feb 2024 – Jun 2024

- Contributed to feature development & **analytics** for WaitKyu, a queue management system with 1000+ active users.
- Enhanced functionality and user experience by gathering insights and implementing data-driven solutions.
- Executed rigorous testing and optimization to deliver high-quality, reliable features.

Data Science & Machine Learning Intern — *Bharat Intern*

Jan 2024 – Mar 2024

- Implemented **predictive models** for survival and classifier tools on Python notebook environment.
- Contributed to **data analysis**, **visualization**, and **feature refinement** to improve **model accuracy**.
- Optimized the model and workflows to deliver high-performance, insightful ML solutions.

PROJECTS & PUBLICATIONS

AudioVeritas – *Deepfake Audio Detection System*

- Engineered an **audio detection** system using **SVM** with MFCCs, chroma, spectral centroid, bandwidth, ZCR.
- Achieved **95.7%** validation **accuracy** on large datasets, validated through precision, recall, and F1-score metrics.
- **Published Research** on a scalable, feature-driven approach safeguarding cybersecurity, media integrity, forensics.
- **Secured funding** to support continued research and enhancement of the project.

Deep Learning Approach for Early Colorectal Cancer Detection using Speech Biomarkers

- Implemented a deep learning pipeline with **CNN** & **RNN** architectures for **OCR** of the math expressions.
- Processed **image data**, trained models for **symbol detection** and sequence prediction, and refined outputs.
- Evaluated and optimized model performance to improve recognition accuracy in real-world applications.

AttendEase – *Attendance Made Easy*

- Designed and developed an attendance app with **biometric authentication** and secure **local network** verification.
- Achieved **95.56%** **time efficiency** and minimal errors through real-time code validation & robust data handling.
- Ensured scalability and enhanced class management with optimized, reliable attendance processing.

PUBLICATIONS

AudioVeritas: A Machine Learning Model to Detect Deepfake Audio

[IJRASET66025](#)

Deep Learning Approach for Early Colorectal Cancer Detection using Speech Biomarkers

[IJRASET63556](#)

Hierarchical Deep Learning for Robust Intrusion Detection in Evolving Security Landscapes

[IJRASET58300](#)

Security Issues and Defensive Approaches in Deep Learning Frameworks

[IJRASET57752](#)

ENTREPRENEURIAL EXPERIENCES & RESPONSIBILITIES

Founder & President — **TechForge Club** Oct'23 - Jul'25 ;

Co-Founder — **Cybernity** May'20 - May'25

Indian Community Lead - **ParrotSec(HTB)** Mar'20 - Jun'25 ;

Chapter Lead - **FOSS United** Sep'23 - Aug'25

SKILLS & ACHIEVEMENTS

Technical Skills: Python, SQL, C, C++, Java, Git, Docker, HTML, CSS, Javascript, MongoDB, AWS, Machine Learning & Deep Learning Tools, Matplotlib, Scikit-learn, Pytorch, Tensorflow, XGBoost

Awards: *Outstanding Achievement and Contribution Award* (JNNCE) for academic excellence and leadership in clubs, hackathons, and communities; *Runners-up at Hack for Hire – Hackathon* (AnvesanaTBI) for developing AgriTech product.

Certifications: Data Science for Engineers (NPTEL), Python Course (Google -Coursera), AI/ML Basics (-VOIS), Cyber Security (IBM), Ethical Hacking (zSecurity - Udemy)

Soft Skills: Leadership, Strategic Communication, Creative Problem-Solving, Adaptability, Budget & Finance Oversight