

SHASHANK REDDYHALLI RAKESH

+1 (619) 953-7436 | sreddyhallirakesh@ucsd.edu | [LinkedIn](#)

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

PROFESSIONAL EXPERIENCE

Digitide — Data Scientist Intern

Feb 2025 – Jun 2025

- Spearheaded **data processing, cleaning, EDA, feature engineering, & NLP** on **100k+** business records.
- Designed & deployed **predictive models & time-series forecasting** solutions achieving up to **0.98 F1 score**.
- Worked among multiple teams to **visualize, interpret & optimize** model outputs for data-driven decision-making.

Blueed — Research & Development Intern

Jul 2024 – Nov 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.

Bharat Intern — Data Science & Machine Learning Intern

Jan 2024 – Mar 2024

- Developed **predictive models** for survival analysis and classification using Python, achieving **~92%** accuracy.
- Contributed to **data analysis, visualization, and feature refinement** to improve **model accuracy**.
- Optimized the model and workflows to deliver high-performance, insightful ML solutions.

VOIS — AIML Intern Oct-Nov'23

|| **EdVedha — Full Stack Web Developer Intern** Nov'23-May'24

IBM -Cyber Security Intern Oct-Nov'23 || **UniConverge Technologies-SDE Intern & Mentor** May-Aug'23

PROJECTS & PUBLICATIONS EXPERIENCE

AudioVeritas – Deepfake Audio Detection System

[IJRASET66025](#)

- 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 [IJRASET63556](#)

- Introduced deep learning method for early colorectal cancer detection using vocal biomarkers from patient recordings.
- Trained a **CNN** to achieve high accuracy in **non-invasive** and **cost-effective** colorectal cancer screening.
- Evaluated and optimized model performance to **improve recognition accuracy** in real-world applications.

Hierarchical Deep Learning for Robust Intrusion Detection in Evolving Security Landscape [IJRASET58300](#)

- Proposed a novel intrusion detection method using deep learning & machine learning to enhance adversarial resilience.
- Developed an adversarial example detector & combined Deep Learning–ML approaches to improve detection accuracy.
- Achieved performance gains under adversarial conditions while ensuring optimized use of computational resources.

Security Issues and Defensive Approaches in Deep Learning Frameworks

[IJRASET57752](#)

- Analyzed **security vulnerabilities** in deep learning frameworks by classifying attacks and identifying threat models.
- Built a comprehensive system mapping attacks to defenses with direct applications in real-world Artificial Intelligence.
- Highlighted future research directions aimed at enhancing the robustness and security of deep learning frameworks.

ENTREPRENEURIAL EXPERIENCES & RESPONSIBILITIES

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

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

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

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

SKILLS & ACHIEVEMENTS

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

Awards: Won first place in SmashHack ML Hackathon (UCSD) and 6th globally,

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), Ethical Hacking (zSecurity)

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