

Saketh Nandula

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OBJECTIVE

Aspiring software engineer and Computer Science student with a solid foundation in Java programming and a passion for competitive problem-solving. Seeking an internship opportunity to demonstrate my technical skills in software development, data analytics, or machine learning. Committed to contributing to innovative projects while gaining practical experience and growing in a dynamic, team-oriented environment.

SKILLS SUMMARY

- **Languages:** Java, JavaScript, Python, C++, R, SQL
- **Frameworks & Libraries:** MERN Stack (MongoDB, Express.js, React, Node.js), TensorFlow
- **Databases:** MongoDB, MySQL, PostgreSQL
- **Tools & Platforms:** Git, GitHub, VS Code, IntelliJ, Jupyter Notebook, Docker (Basics)
- **Concepts:** Data Structures & Algorithms (DSA), Database Management Systems (DBMS), Operating Systems, Computer Networks, Big Data Analytics, Machine Learning, Deep Learning, AWS Cloud (Basics), CI/CD (Basics), Cybersecurity (Basics), Linux Commands

PROJECTS

- **Detecting Unauthorized Encampments in Satellite Imagery using Deep Learning:** April 2024 – August 2024
 - **Role:** Lead Developer (Academic Project with 2 members)
 - **Project Description:** Led the design and development of a deep learning system for identifying unauthorized military and refugee encampments from high-resolution satellite imagery to aid border surveillance and humanitarian monitoring.
 - **Techology & Tools:** Python, TensorFlow, ultralytics YOLOv8, Google Colab, Roboflow
 - **Impact/Results:** Achieved 95.14% accuracy and 96% precision using oriented bounding boxes; optimized model via robust image augmentation, custom training loops, and dataset balancing across 4,000+ annotated images. Validated with ground-truth data for operational deployment readiness.
- **Deep Learning-Driven Reconstruction of Maritime Targets in Noisy SAR Data:** February 2025 – April 2025
 - **Role:** Lead Developer (Academic Project with 2 members)
 - **Project Description:** Developed a custom Super-Resolution CNN to reconstruct high-quality SAR images by reducing noise and enhancing structural clarity of maritime targets.
 - **Techology & Tools:** Python, TensorFlow, Custom CNN, ultralytics YOLOv11, Google Colab, Roboflow
 - **Impact/Results:** Achieved PSNR of 27.854 dB, SSIM of 0.616, and GSCR of 15.92 dB. Improved YOLOv11-based ship detection performance by 21.5% mAP@0.5 post-reconstruction. Used a dataset of 11,590 SAR images across C-, L-, and X-band frequencies with 70:20:10 train-validation-test split.
- **Airbnb Clone – Vacation Rental Web Platform:** May 2023 – October 2023
 - **Role:** Solo Developer
 - **Project Description:** Replicated core Airbnb features including listings, booking, and management, with real-time UI updates and responsive design.
 - **Tech Used:** MERN Stack (MongoDB, Express.js, React.js, Node.js)
 - **Impact/Results:** Enabled browsing of 100+ properties, supported user bookings, and stored 5K+ records; improved user engagement by 40% with mobile-first UI and fast backend responses.

HACKATHONS & COMPETITIONS

- Achieved 2nd place (INR 20,000 cash prize) in the SaaS theme at **TechXcellerate 2025 (BITS Pilani Hyderabad Campus)** as **Team Lead** for proposing a **Subscription Management SaaS platform** to help individuals, freelancers, and businesses track renewal dates, estimate monthly/annual expenses, and eliminate redundant subscriptions via a centralized dashboard – March, 2025.
- Competed in the **Amazon ML Challenge on Unstop**, developing an **Entity feature extraction model** using supervised learning on 100K+ household product images, achieving 93.6% accuracy in predicting key attributes like weight, volume, and dimensions – August 2024.
- Competed in **Cricket Code Champions Hack on HackerEarth**, developing a **Random Forest model to predict player performance** in World Cup matches using 50K+ data points on stats, form, pitch, and conditions, achieving 91.2% prediction accuracy – December 2023.

CERTIFICATIONS & PUBLICATIONS

All certifications available at: <https://github.com/saketh0104/Certifications/blob/main/README.md>

Publications:

- *Detecting Suspicious Military Tents from Optical Images using Deep Learning Model*, published in **IEEE Xplore**, DOI: 10.1109/10774858.

COMPETITIVE PROGRAMMING

- **LeetCode**: Solved over 370 problems (including 210+ in Java), earned multiple badges (100+ days in 2024, 50+ days in 2025, and a streak in February 2025), and participated in over 10 weekly contests.
- **CodeChef**: Solved over 200 problems, scored 100% in the Java Online Test, and participated in more than 4 contests.
- **HackerRank**: Earned a 5-star gold badge in Python and participated in over 3 college coding contests.

ACADEMIC ACHIEVEMENTS

- Earned the Java Explorer Badge for completing 15 modules in the Oracle Java Foundations course on Oracle MyLearn.
- Completed 3 NPTEL course examinations, earning certifications by securing the required scores, including a Gold certification in R Software with a 90% score.
- Achieved the highest SGPA in the branch for Semester 1-1 and Semester 2-2.

POSITIONS OF RESPONSIBILITY

- **Member, Analytics Society of India – Student Chapter, VRSEC**: Played a key role in organizing 5 technical workshops, 1 hackathon, and 2 guest lectures; mentored 200+ peers in coding and algorithms.
- **Microsoft Learn Student Ambassador, Microsoft Learn Student Club, VRSEC**: Participated in 3 workshops focused on Machine Learning, Web Development, and Data Analytics & Visualization.

EDUCATION

VR Siddhartha Engineering College , Vijayawada, India B.Tech in CSE (Artificial Intelligence & Data Science)	2022 – 2026 CGPA: 9.35
Narayana Junior College , Vijayawada, India Senior Secondary (Class XII), AP State Board	2020 – 2022 Percentage: 96.4%
Dr. KKR's Gowtham Concept School , Vijayawada, India Secondary School (Class X), AP State Board	2019 – 2020 Percentage: 96.4%

LANGUAGES

English, Hindi, Telugu