

Nihal Thangallapally

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[LinkedIn](#) | [GitHub](#) | [LeetCode](#)

CAREER OBJECTIVE:

- A final-year Computer Science Engineering student passionate about leveraging AI, Data, and CRM technologies to create impactful projects in a collaborative work environment. Excited to contribute to Salesforce's mission of transforming businesses globally and thrive as a Trailblazer.

EDUCATION:

SR University, Telangana, India (2021 – 2025)

Bachelor of Technology in Computer Science Engineering | CGPA: 7.0

SR Junior College (2019 – 2021)

Intermediate (MPC) | Percentage: 48%

Bharati Vidya Bhavan High School (2019)

SSC | CGPA: 9.0

TECHNICAL SKILLS:

Category	Tools/Technologies
Programming Languages	: Python, C, JavaScript, Java, HTML, CSS
AI Frameworks/libraries	: PyTorch, Keras, scikit-learn, TensorFlow
Computer Vision	: OpenCV, YOLO, TensorFlow Lite
Object-Oriented Design	: Strong Understanding, Practical application
NLP Frameworks	: SpaCy, NLTK, LLM (GPT-3, GPT-4, PaLM 2, LLaMA), Transformers
Data Science Libraries	: NumPy, Pandas, Matplotlib, SciPy, Seaborn, Plotly
Web Technologies	: React, RESTful APIs, Next
Cloud Platforms	: AWS, Azure, Google Cloud Platform (GCP), Firebase
Database Packages	: MySQL, XAMPP, MongoDB, PostgreSQL, SQLite, Pinecone
Version control	: Git, GitLab, GitHub
CI/CD Pipeline	: GitHub Actions, Docker, Azure ML

PROJECT DETAILS:

Project Name	: AI Powered Traffic Sign Recognition for Autonomous Vehicles Using Raspberry PI 3B+
Technologies	: TensorFlow Lite, OpenCV, Raspberry Pi, CNN, GEMMA
Role	: Full Stack AI Developer

Project Description:

Designed and implemented a cutting-edge solution with impactful applications in autonomous vehicles, enhancing team collaboration and achieving significant performance improvements.

- Designed and implemented a traffic sign detection system using Vision Transformers for efficient feature extraction and real-time classification.
- Conducted extensive data preprocessing and augmentation to optimize model performance.
- Evaluated the system using accuracy, precision, recall, and F1-score metrics, achieving significant improvements over traditional methods.
- Documented the entire workflow and prepared user guides for deployment.

PROJECT DETAILS:

Project Name : **Expense Tracker Mobile Application**
Technologies : React Native, Firebase, Node.js, MongoDB, Expo, Redux
Role : Full Stack Mobile Developer

Project Description:

Developed a collaborative and user-friendly platform to track financial activities, delivering impactful features for end-users and ensuring seamless functionality in a dynamic environment.

- Developed a cross-platform mobile application with a user-friendly interface for tracking financial activities.
- Engineered backend services with Node.js and integrated Firebase for secure data management.
- Implemented Redux for state management and ensured seamless offline-to-online transitions.
- Deployed the application as an APK, iterating features based on user feedback.

OTHER PROJECTS:

Web Application Firewall

Technologies: *Python, Pandas, Jupyter, MYSQL, Cloud WAF*

A Web Application Firewall (WAF) Project involves designing and implementing a security solution that protects web applications by monitoring, filtering, and blocking malicious HTTP/S traffic. The project typically includes configuring WAF rules to safeguard against common threats such as SQL injection, cross-site scripting (XSS), and denial-of-service (DoS) attacks, ensuring compliance with security standards, and optimizing performance without disrupting legitimate user traffic. Technologies include Python for scripting, SQL for backend security testing, and WAF tools like AWS WAF or MoD Security for deployment.

Breast Cancer Prediction

Technologies: *Python, Pandas, Jupyter, MatPlot*

A machine learning-based system designed to predict the presence of breast cancer using diagnostic data. The project utilizes classification algorithms to analyse features such as cell radius, texture, and compactness. It aims to provide accurate, early detection to assist in medical decision-making.

INTERSHIPS:

AICTE – PALO ALTO CYBERSECURITY VIRTUAL INTERNSHIP

Machine Learning Intern

- Focused on Ethical Hacking and Security Frameworks.

1Stop Cyber Security Virtual Internship

Ethical Hacking Intern

- Gained hands-on experience in Ethical Hacking.

INFOSYS AIML Virtual Intership

Machine Learning Intern

- Developed and evaluated machine learning models for real-world applications.

PARTICIPATIONS & ACHIVEMENTS:

- Attended workshop on Drones and received certificate and award.
- Attended Hackathon in S R University and received Certificate.
- Given an idea presentation in T-HUB.
- Attended Undergraduate Business meeting and gave an idea presentation
- Worked as Volunteer for Telangana's biggest student carnival **PROST**.
- Member of Rotaract Club Hyderabad
- Collaborated with global teams during internships to implement scalable AI solutions.

Research Papers:

- Done and Wrote my Research on Ancient Temples of India.
- Done and Wrote my Research on Chat Bots for College Project.
- Done And Wrote a Research Paper on AI Powered Traffic Sign Detection for Autonomous Vehicles Using Raspberry Pi.

Certifications:

- Cisco Networking Academy: Ethical Hacker (Intermediate)
- Professional Business Analytics from University of ILLINOIS (Coursera)
- Fundamentals of Entrepreneurship in the Family Business (EdX)
- Artificial Intelligence on Microsoft Azure (Coursera)
- Introduction to Android Mobile Application Development (Coursera)
- Principles of UX/UI Design (Coursera)
- Version Control (Coursera)
- Programming Fundamentals in Kotlin (Coursera)