NAKKA REDDEPPA

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As a highly motivated and enthusiastic B.Tech graduate, I am seeking a challenging role in a dynamic organization where I can apply my technical knowledge, problem-solving abilities, and passion for continuous learning to contribute to the success of the team and grow professionally.

WORK EXPERIENCE

Intern **May 2024 - Aug 2024**
Pragyashal **India**

- Optimized hyperparameters of a neural network using Bayesian optimization, achieving a 10% improvement in accuracy compared to manual tuning.
- Designed and implemented an anomaly detection system using unsupervised learning, detecting critical issues in real-time and preventing potential system failures.

Technical Intern **Feb 2024 - May 2024**
MAANG TECHNOLOGIES PVT LTD **India**

- I have contributed to team knowledge sharing initiatives, conducting workshops on new tools and techniques, resulting in an up-skilled and more efficient development team.
- Integrated third-party APIs, enabling the application to offer new services and expanding the customer base by 15%.
- Implemented secure coding practices, strengthening application security and reducing vulnerabilities.

EDUCATION

B Tech in Computer Science & Engineering **Aug 2021 - May 2025**
RGUKT, A.P. IIIT, R.K. Valley **GPA:** CGPA: 8.50

Active in coding, research, and developing practical ML/AI solutions and actively participated in the university level sports

Pre-University course **Aug 2019 - May 2021**
RGUKT, A.P. IIIT, R.K. Valley **GPA:** CGPA: 9.10

Developed strong fundamentals in problem-solving, logical reasoning, and core sciences

SSC **Jun 2018 - May 2019**
A.P Model School **GPA:** 10.0 CGPA

Focused on Mathematics and Science, building a strong foundation for higher studies in engineering

PROJECTS

Signature verification using DenseNet 169

Developed a backend-driven signature verification system that exposes machine learning functionality through secure REST APIs for real-world applications such as banking and document verification. Built and maintained backend services using Flask/Django to handle signature uploads, preprocessing, and prediction requests, integrating a DenseNet-169 model that achieved ~95% accuracy in forgery detection. Implemented JWT-based authentication to secure API endpoints, connected the system with SQL databases to store user data and verification logs, and ensured reliability through proper error handling and API testing using Postman. The project was version-controlled using Git and GitHub

Enhanced Endometriosis Diagnosis with Voting Classifiers

Developed machine learning algorithms to classify and diagnose endometriosis using patient data. Utilized bagging classifiers, voting methods, and extra trees algorithms to enhance accuracy in endometriosis diagnosis, benchmarked against existing research findings. Developed a voting classifier-based model for endometriosis diagnosis, achieving ~90% accuracy and improved reliability over individual ML models.

SKILLS

Tech Stack Skills: Python, Java, DSA, C#, HTML, CSS, JavaScript, TypeScript, React, .NET, Bootstrap, Django, Flask, NumPy, Pandas, matplotlib, scikit-learn, Tensor-Flow, SQL, PostgreSQL, SQL Server, AI/ML models, RESTful API design, Git, GitHub, Unit testing, API testing.

Soft Skills: Teamwork & Collaboration, Problem-solving & Critical Thinking, Adaptability & Flexibility, Leadership & Taking Initiative, Time Management & Prioritization, Strong verbal and written communication skills

CERTIFICATIONS

Technical intern by **MAANG TECHNOLOGIES PVT LTD** **May 2024**
AI for all program - AI Appreciate stage **Apr 2023**
AI for all program - AI Aware stage **Apr 2023**
Machine learning with python course completion **Jul 2022**

LANGUAGES

ENGLISH • TELUGU • HINDI