

Rikas Mohamed N

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About me

Computer Science and Engineering student with a strong foundation in Python, AI/ML, NLP, and full-stack development. Demonstrated ability to apply machine learning and natural language processing techniques in real-world projects and experienced in building scalable web applications.

Education

Mangalam College Of Engineering
Computer Science And Engineering

Ettumanur, Kerala
2021 – 2025

Bishop Moore Vidyapith
Highschool

Krishnapuram, Kerala
2018 – 2020

Relevant Coursework

- Data Structures
- Database Management
- Computer Networks
- SDL
- Artificial Intelligence
- Computer Architecture
- Java
- C
- Web Development

Experience

Torc Infotech

May 2023

AI/ML Intern

Cochin, Kerala

- Acquired essential skills during the internship focused on the fundamentals of Artificial Intelligence and Machine Learning, gaining hands-on exposure to key concepts and workflows.
- Familiarised with both supervised and unsupervised learning algorithms.
- Contributed to a mini-project involving real-world data, evaluating model performance using metrics like accuracy, precision, and F1-score.
- Collaborated with team members in a fast-paced environment, attending weekly reviews and sharing progress updates.

Facein Technologies Pvt Ltd

December 2024

Python Developer Intern

Cochin, Kerala

- Acquired hands on experience through the internship in Python programming, enhancing skills in automation, data handling, and real-world scripting techniques.
- Contributed to a mini project involving task automation that improved team productivity.
- Collaborated with team members using version control systems such as Git to organize modifications and assign tasks.
- Explored use of Python for web scraping using libraries like BeautifulSoup

Projects

Class Management web app | Python, Django, HTML

April 2024

- Developed a full-stack web application covering all class management activities including attendance marking and monitoring, fee management and managing individual student information
- Developed the backend using with Python and Django providing fast and efficient performance
- Developed an engaging and interactive interface using HTML and CSS
- Built user-friendly interfaces for administrators and educators, streamlining classroom data management tasks

Real-time Cyclone Alert and Location Monitoring System |

Python, ML(Random Forest), React, React Native, Node js, REST api

March 2025

- Developed a real-time cyclone alert system using Python and machine learning (Random Forest) to predict and monitor cyclone patterns.
- Integrated React Native for a cross-platform mobile app to provide real-time alerts and tracking features.
- Used Node.js for backend services, including real-time data handling and communication with the app.
- Integrated a location monitoring system to track individuals trapped in the danger zone and to provide assistance if required
- Integrated SMS based alerts to account for non smartphone users enhancing the capability and inclusivity of the warning system

- Designed and implemented an AI-powered resume matcher that compares candidate resumes to job descriptions using Sentence-BERT embeddings and cosine similarity for accurate semantic relevance scoring.
- Built a modular NLP pipeline with advanced preprocessing: lowercasing, stopwords removal, lemmatization, and spelling correction via SymSpell, enhancing data quality for embedding generation.
- Calculated match percentile ranks and applied recruiter-defined thresholds to shortlist candidates automatically.
- Built a modular pipeline for reading PDF and text files, cleaning text, extracting features, and presenting results in an interpretable format.

Certifications

Python Fundamentals

December 2023

Coddy.tech

Remote

- Enhanced coding skills through Python Fundamentals course led by Kovid Panthy, covering core programming concepts.

Technical Skills

Languages: Java, Python, C , SQL , HTML, React Native, React js, Node js

Developer Tools: Django, Numpy, Pandas, NLTK, Gensim (Word2Vec), Scikit-learn, SymSpellPy, BeautifulSoup

Technologies/Frameworks: VS Code, PyCharm, IntelliJ, Jupyter Notebook, Google Collab, Git, Cursor

Achievements

Leadership

Academic Project Lead

- Initiated and built a Class Management Web Application using Django and HTML for the mini project, streamlining academic workflows and mentoring peers on full-stack development practices.
- Led the development of a real-time Cyclone Disaster Prediction and Management System as final year project, coordinating a cross-functional team and integrating satellite APIs, geospatial mapping, and ML models to enhance community safety.

Academic

First-class Graduate

- Final Year project for Disaster Prediction and Management got shortlisted for University Funding
- Graduated with 7.47 cgpa with no backlogs and was honored as sgpa topper twice during the curriculum