

Nikunj Rathod

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Education

Dhirubhai Ambani University, Gandhinagar <i>Master of Technology in ICT (Machine Learning)</i>	2022-24 CGPA - 7.31
Birla Vishvakarma Mahavidyalaya, Anand <i>Bachelor of Technology in Computer Engineering</i>	2018-22 CGPA - 7.17
The School of Science, Rajkot <i>Std-12 (Higher Secondary)</i>	2017-18 Percentage - 84.00%
Sanskars School, Bhuj <i>Std-10 (Secondary)</i>	2015-16 Percentage - 89.00%

Skills

Programming Languages: Java, Python, SQL, C++, JavaScript

Frameworks: Angular

Databases: PostgreSQL, MySQL, DB2

Tools: Maven, Postman, PowerBI, SVN,

Concepts: Data Structures, OOPs, DBMS, Machine Learning, Reinforcement Learning

Experience

Systems Engineer – Frontend Developer

Nov 2024 – Present

Tata Consultancy Services (TCS), Gandhinagar

- Developed **Angular Reactive Forms** with custom and built-in validations to ensure accurate data capture for the **Income Tax Department's HRMS module**.
- Optimized form handling with **state management** and **error messaging patterns**, improving user experience and reducing input errors.
- Implemented **dynamic form controls and reusable validation services** to handle complex workflows and followed **Angular best practices** for modular architecture, maintainability, and scalability.

Projects

SynergyHR

June 2024 – Oct 2024

Technologies: Angular, TS, HTML, CSS, REST APIs, JWT Auth, WebSocket

- Developed SynergyHR's AngularJS frontend for leave, employee, and appraisal modules using reusable components, directives, reactive forms, and REST integrations.
- Improved performance via lazy loading, interceptors, route guards, pagination, and E2E/unit tests to enhance reliability and user experience.

GenAI-Integrated Document Assistant

Jan 2024 - May 2024

Technology Used: JS, Angular, REST APIs, Python, LLM

- Building a GenAI-integrated document assistant, implementing Angular TypeScript UI with chat, summarization, and retrieval features, connected to ML FastAPI services.
- Designed secure RAG pipelines, FastAPI inference endpoints, and observability; optimized prompts, caching, and token costs; delivered responsive, accessible Angular components.

Phishing Website Detection through Reinforcement Learning

May 2023 - Dec 2023

Technology Used: Python, Reinforcement Learning, NLP

- Used RL based deep Q-Network to classify whether the URL is phishing or legitimate.
- Twelve different features extracted from URL including address bar and JS/HTML based features.

Achievements

- Two times **GATE (2021,2022) Qualified** with a score of **395** in Computer Science and Engineering.
- Served as a **Teaching Assistant** for courses including **Data Analysis and Algorithms, Data Structures, and Statistics** at DAIICT, assisting students in lab sessions and evaluations.
- Served as a **Student Placement Cell Member** of the entire batch for year 2022-23 at DAIICT.