

# Nikunj Rathod

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## Education

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

## 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

<b>Systems Engineer – Frontend Developer</b>	Nov 2024 – Present
Tata Consultancy Services (TCS), Gandhinagar	
<ul style="list-style-type: none"><li>Developed <b>Angular Reactive Forms</b> with custom and built-in validations to ensure accurate data capture for the <b>Income Tax Department's HRMS module</b>.</li><li>Optimized form handling with <b>state management</b> and <b>error messaging patterns</b>, improving user experience and reducing input errors.</li><li>Implemented <b>dynamic form controls and reusable validation services</b> to handle complex workflows and followed <b>Angular best practices</b> for modular architecture, maintainability, and scalability</li></ul>	

## Projects

<b>SynergyHR</b>	June 2024 – Oct 2024
Technologies: Angular, TS, HTML, CSS, REST APIs, JWT Auth, WebSocket	
<ul style="list-style-type: none"><li>Developed SynergyHR's AngularJS frontend for leave, employee, and appraisal modules using reusable components, directives, reactive forms, and REST integrations.</li><li>Improved performance via lazy loading, interceptors, route guards, pagination, and E2E/unit tests to enhance reliability and user experience.</li></ul>	
<b>GenAI-Integrated Document Assistant</b>	Jan 2024 - May 2024
Technology Used: JS, Angular, REST APIs, Python, LLM	
<ul style="list-style-type: none"><li>Building a GenAI-integrated document assistant, implementing Angular TypeScript UI with chat, summarization, and retrieval features, connected to ML FastAPI services.</li><li>Designed secure RAG pipelines, FastAPI inference endpoints, and observability; optimized prompts, caching, and token costs; delivered responsive, accessible Angular components.</li></ul>	
<b>Phishing Website Detection through Reinforcement Learning</b>	May 2023 - Dec 2023
Technology Used: Python, Reinforcement Learning, NLP	
<ul style="list-style-type: none"><li>Used RL based deep Q-Network to classify whether the URL is phishing or legitimate.</li><li>Twelve different features extracted from URL including address bar and JS/HTML based features.</li></ul>	

## 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.