Koparkhairne, Navi Mumbai, Maharashtra rahul.mak2216@gmail.com | +91-8591106868

LinkedIn: linkedin.com/in/rahulmakwana | GitHub: github.com/rah-ai **Career Goal: Aspiring AI/ML Engineer**

# EDUCATION

BTech in Computer Engineering (Minor in Artificial Intelligence)

Dr. D. Y. Patil's Ramrao Adik Institute of Technology, Nerul

2023 - 2027

\* Relevant Courses: Machine Learning, Deep Learning, Data Structures, Operating Systems, AI, Computer Vision \* GPA: [Not Yet Awarded]

# INTERNSHIPS & TRAINING

Infosys Springboard Internship 6.0 (In Progress)

Infosys | 2025-(WAS NOT ABLE TO JOIN BUT TRAINED FULLY)

* Undergoing pre-internship training in Data Science, AI, and project development.
* Selected through national-level screening for internship on emerging technologies.

Deloitte Virtual Simulation Training- Data Analytics

Forage (Remote) | 2024

* Completed tasks on data cleaning, visualization, and business insights generation using SQL and Excel.

Accenture Virtual Experience - Software Engineering

Forage (Remote) | 2024

* Simulated project development using Agile, requirement analysis, and cloud deployment principles.

## \*Tata Group Data Analytics Job Simulation on Forage - August 2025

* Completed a job simulation involving AI-powered data analytics and strategy development for the Financial Services team at Tata iQ.
* Conducted exploratory data analysis (EDA) using GenAI tools to assess data quality, identify risk indicators, and structure insights for predictive modeling.
* Proposed and justified an initial no-code predictive modeling framework to assess customer delinquency risk, leveraging GenAI for structured model logic and evaluation criteria.
* Designed an AI-driven collections strategy leveraging agentic AI and automation, incorporating ethical AI principles, regulatory compliance, and scalable implementation frameworks.

## \*British Airways Data Science Job Simulation on Forage - August 2025

* Completed a simulation focussing on how data science is a critical component of British Airways' success.
* Scraped and analysed customer review data to uncover findings.
* Built a predictive model to understand factors that influence buying behaviour.

\*Tata Data Visualisation: Empowering Business with Effective Insights Job Simulation on Forage – August-2025

* Completed a simulation involving creating data visualizations for Tata Consultancy Services
* Prepared questions for a meeting with client senior leadership
* Created visuals for data analysis to help executives with effective decision making

# PROJECTS

1***.AI Financial Inclusive Agent***   
Stack: Python, Flask, Machine Learning   
Developed an AI agent that helps individuals discover and apply for financial schemes based on their occupation.   
Features: Personalized scheme matching, chatbot interface, real-time eligibility check.   
Impact: Aimed at improving financial inclusion for underprivileged communities.   
Team Size: 3 | Role: Lead AI Developer

2. ***IBM Internship Project - Mental Health Virtual Assistant***   
Stack: Python, Streamlit, IBM Watson NLU, Logistic Regression, Extra Trees Classifier   
Built an Agentic AI-powered virtual assistant for empathetic mental health support.   
Features: Emotion analysis, intelligent decision-making, empathetic response generation, full-stack deployment on IBM Cloud.   
Tools: IBM Cloud, Watson Studio, Hugging Face, Render.   
Team Size: 8 | Role: AI Developer & Model Trainer

3.***ZeroTrace AI - Carbon Footprint Tracker (Major Project)***

Stack: FastAPI, React, TypeScript, MongoDB Atlas, PyTorch, TensorFlow \* Full-stack website to track and reduce carbon emissions.

* Features: Dashboard, AI-powered recommendations, carbon tracking, chatbot, route planner, gamification, andredeemable points.
* Integrated APIs: Carbon Interface, Climatiq.
* Team Size: 4 | Role: Lead Developer & AI Integrator

***CS50P Final Project - Budget Tracker CLI App***

Stack: Python, JSON, Pytest

* Command-line application to record expenses and generate summaries by category.
* Persistent storage using JSON and testing with pytest.

# CERTIFICATIONS

\* CS50's Introduction to Programming with Python - Harvard (edX) \* TechSaksham Foundation: IR4.0 Technologies - Microsoft & SAP \* Infosys Springboard (Ongoing Courses):

* Artificial Intelligence
* Machine Learning Foundations
* Python for Data Science
* Agile Software Development

# SKILLS

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

Web Development: React, Vite, HTML5, CSS3, FastAPI, REST APIs

Backend & Databases: MongoDB Atlas, SQL (MySQL), Firebase

AI/ML Tools: TensorFlow, PyTorch, Scikit-learn, NumPy, Pandas, Matplotlib, Jupyter

Other Tools: Git, GitHub, Postman, VS Code, Cursor,Trae

# CAREER OBJECTIVE

Passionate and driven Computer Engineering student specializing in Artificial Intelligence, aiming to become an AI/ML Engineer. Dedicated to building ethical, impactful, and scalable AI solutions using data-driven models and intelligent systems.

# ACHIEVEMENTS & HIGHLIGHTS

* \* Developed ZeroTrace AI with 10+ advanced features and AI integration.
* \* Selected for Infosys Springboard Internship 6.0.
* \* Completed CS50P (Harvard) and TechSaksham IR4.0 programs.
* \* Led development teams in academic projects and hackathons.

# FUTURE INTERESTS

* AI Automation Tools & LLM Agents
* Generative AI and Reinforcement Learning
* Sustainable AI product development
* Scalable deployment of AI systems on cloud