ABIN SKARIA

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https://www.linkedin.com/in/abin-skaria https://github.com/Abin-28

My portfolio: A https://abin-28.github.io/Portfolio/

SUMMARY

Passionate Computer Science graduate with hands-on experience in developing Al-powered full-stack applications. Proficient in integrating LLMs, building scalable systems with Docker, and deploying on modern cloud platforms. Eager to contribute impactful tech solutions to real-world environments

EXPERIENCE

Internship

INFINITA AI

= 06/2024 - 08/2024

Internship position focusing on AI and machine learning

- Integrated LLM models for natural language understanding.
- Built real-time streaming capabilities using WebSockets.
- Designed and implemented conversational flows for dynamic user interactions.
- Developed and tested RESTful APIs using Postman.
- · Used Git for version control and collaborated effectively via GitHub.

Junior AI/ML Engineer

INFINITA AI

m 09/2024 - 04/2025

AI/ML Engineer role focused on developing AI projects

- Contributed to the end-to-end design and development of full-stack Al projects, including:
 - A memory-based Al agent platform
 - An Al-powered booking system
 - o Multiple custom Al agents
- Containerized services using Docker for scalable deployment.
- Deployed frontend apps using Vercel and managed backend infrastructure on Digital Ocean.

Team Communication & Workflow Management:

Facilitated Agile team coordination via Slack and Notion. Tracked progress via Linear.

Technologies & Frameworks Utilized:

Frontend: Next.js | Backend: Node.js, SQL | Databases: Supabase, MongoDB DevOps: Docker, DigitalOcean, Vercel | APIs & Testing: Postman Version Control: Git, GitHub | Al/Automation Platforms: Voiceflow, Make

EDUCATION

Bachelor of Technology in Computer Science and Engineering

College of Engineering, Chengannur

iii 08/2020 - 05/2024 ♀ Kerala

XII (CBSE)

Kerala School, Vikaspuri

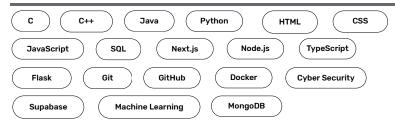
04/2018 - 05/2020 New Delhi

X (CBSE)

Kerala School, Vikaspuri

iii 04/2006 - 03/2018 ♀ New Delhi

SKILLS



ACCOMPLISHMENT

- Coursera
 - "Introduction to Software Engineering" IBM
 - o "HTML, CSS, and JavaScript for Web Developers" Johns Hopkins University
- Completed workshops focused on User Interface (UI) design.
- Volunteered for IEEE and IEDC organizations.
- Volunteered at Tharang, CEC Tech Fest.



PERSONAL PROJECTS

1. AyurHealth

[https://ayurhealth.glitch.me]

- · Purpose:
 - Predicts diseases based on symptoms.
 - Suggests Ayurvedic remedies for specific diseases.
- Key Features:
 - Predictor Tab:
 - User inputs four symptoms.
 - Predicts the disease using a Random Forest algorithm with 80% accuracy.
 - Suggester Tab:
 - User enters a disease name.
 - Displays corresponding Ayurvedic remedies.
- Technologies Used:
 - Machine Learning: Random Forest Algorithm
 - · Frontend: HTML, CSS, JavaScript
 - · Language: Python

2. Movie-Recommender

[https://github.com/Abin-28/movie_recommends]

- Purpose:
 - · Recommends similar movies based on user input.
- Dataset Used:
 - · Movie dataset containing essential movie details.
- Key Features:
 - Uses a vectorization method to compare movies.
 - Displays top 5 similar movies based on user input.
- Technologies Used:
 - Machine Learning: Implemented in Jupyter Notebook
 - · Frontend: Streamlit for web interface
- · Language: Python

3. Bank Management System

[https://github.com/Abin-28/Bank-Management]

- Purpose:
 - Manage core banking operations such as withdrawals, deposits, and account inquiries.
- Key Features:
 - Allows users to withdraw and deposit money.
 - Enables checking of account details and balances.
 - Implements a basic user interface using Turbo C++ graphics module for improved User Interface.
- Technologies Used:
 - Programming Language: C++
 - IDE: Turbo C+-

ACADEMIC PROJECTS AND SEMINAR

1. TREKZEN (MAJOR PROJECT)

[https://trekzen11.glitch.me]

- Purpose:
 - Helps tourists plan their trips more efficiently.
 - Suggests optimal travel routes.
- · Algorithms Used:
 - Lin-Kernighan (for optimization)
 - Nearest Neighbor (for approximation) Key Features:
- - Plans routes for single or multiple-day vacations. Technologies Used:
- Frontend: HTML, CSS, JavaScript Backend: Node.js

2. DNA Storage Channel Simulator (SEMINAR)

[Based on research work using Generative Adversarial Networks (GAN)]

- Purpose:
 - Presented a seminar on how AI (specifically GANs) can be used to simulate errors in storing data using DNA.
- Topics Covered:
 - Basics of DNA data storage and its benefits.
 - · Common types of errors in DNA sequencing like insertions, deletions, and substitutions.
 - How GANs can be trained to copy these errors.
 - Use of quality scores to reflect how confident the system is in the

Hard Work

• Future improvements suggested in the research.

STRENGTHS

Team Work



Leadership

Critical Thinking Problem Solving