



ABIN SKARIA

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



SUMMARY

Passionate Computer Science graduate with hands-on experience in developing AI-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

 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 AI projects, including:
 - A memory-based AI agent platform
 - An AI-powered booking system
 - Multiple custom AI 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 | AI/Automation Platforms: Voiceflow, Make

EDUCATION

Bachelor of Technology in Computer Science and Engineering

College of Engineering, Chengannur

 08/2020 - 05/2024  Kerala



XII (CBSE)

Kerala School, Vikasपुरी

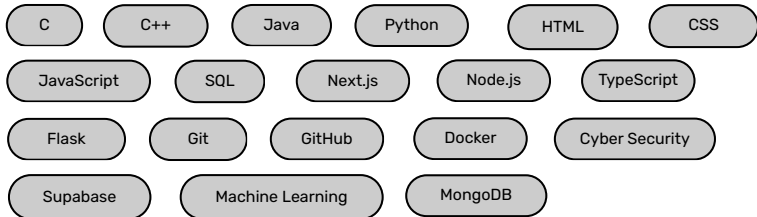
 04/2018 - 05/2020  New Delhi

X (CBSE)

Kerala School, Vikasपुरी

 04/2006 - 03/2018  New Delhi

SKILLS



ACCOMPLISHMENT

- Coursera
 - "Introduction to Software Engineering" - IBM
 - "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-Recommend

[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 data.
 - Future improvements suggested in the research.

STRENGTHS

