Atharva Nagarsekar

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About Me

I am currently pursuing a Bachelor of Technology in Artificial Intelligence and Data Science at DJ Sanghvi College of Engineering, Mumbai, where I've built a strong academic foundation (9.1 CGPA) and a passion for using technology to address real-world challenges.

With expertise in Python, Java, JavaScript, C++, SQL, and frameworks like Django, React, and Flask, I bring a versatile skill set to the table. My hands-on experience includes building predictive analytics systems, personalized recommendation engines, and Android applications, developed through dynamic internships and personal projects. I'm committed to lifelong learning, having completed advanced courses in machine learning, deep learning, and cloud computing from platforms like Coursera, DeepLearning.AI, and Harvard's CS50. This continuous upskilling has honed my proficiency in neural networks and large language models, enabling me to stay at the forefront of technological innovation.

During internships at Next24tech and AICTE Eduskills, I contributed to impactful projects, including a house price prediction model, an e-commerce recommendation system, and a COVID-19 tracking app. My personal projects, like Fin-AI-lytics (an AI-powered financial advisor) and RetroSnap (a photo enhancement app using AI and computer vision), reflect my ability to combine creativity with technical expertise to design user-centric solutions. I'm driven by curiosity and a passion for innovation. My goal is to leverage my technical skills and problem-solving mindset to create meaningful advancements in artificial intelligence, data science, and software development while delivering measurable impact.

Education

Dwarkadas J Sanghvi College of Engineering	Juhu, Mumbai
Bachelor of Technology in Artificial Intelligence and Data Science: 9.1 CGPA	*Aug. 2022 – June. 2026*
Sathaye College	Vile Parle, Mumbai
83% in Grade 12	*Aug. 2020 – March 2022*
Parle Tilak Vidyalaya(ICSE)	Vile Parle, Mumbai
97% in Grade 10	*June. 2017 – March 2020*

Experience

Data Science Intern — June 2024 – August 2024
Next24tech Technology and Services. — *Nagpur, Maharashtra*

- Developed a House Price Prediction System Using Data Analytics Algorithms
- Developed a E-commerce Product Recommendation System capable of suggesting personalized product recommendations to users, enhancing their shopping experience and increasing sales.
- Explored ways to perform Social Media Sentiment Analysis

Android App Development Intern — April 2024 – June 2024.
AICTE Eduskills — *Virtual*

- Assisted in developing an Android App to track the number of Covid-19 patients near the user and show directions to the nearest medical care centre.
- Assisted in the development of the interface of the music app.

Projects

Fin-AI-lytics | *API Integration, AWS, Firestore, ML, Recommendation system, Generative AI* — September 2024

- AI Financial Advisor: Stocks, Portfolio Management with Risk Analysis
- Designed a user-friendly walkthrough system to explain financial concepts, increasing accessibility for beginners while providing advanced insights for experienced investor
- Developed a comprehensive financial advisory system using Python, integrating real-time stock data via Yahoo Finance API and LSTM model for market trend analysis and prediction giving close to 90 accuracy.
- Implemented portfolio optimization algorithms utilizing statistical parameters, enabling risk-adjusted strategy recommendations based on user risk tolerance.

RetroSnap | *React-Native, AI, OpenCV, Pillow, Image Processing, Computer Vision* — October 2024 – Ongoing

- Developed an image processing application that transforms input photos to mimic the aesthetic of 90s digital cameras using custom filters and computer vision techniques
- Implemented advanced image processing techniques using OpenCV to recreate vintage camera effects, such as noise, color grading, and vignetting, enhancing user experience with authentic retro visuals.

- Integrated AI algorithms to automatically suggest filters based on the content and style of the uploaded images, streamlining the editing process and ensuring optimal results.

VidGyan | *Python, Flask, Moviepy, Generative AI, NLP*, Web scrapping   December 2023 – Present
- Developed a full-stack web application which helps students to learn complex topics easily by explaining it with simple real life examples with visualizations.
- Used API to generate a simple script regarding the topic.
- Used NLP to generate and explain keywords in the script.
- Employed Web scrapping techniques to create Visualizations for the same

QUESTX | *React, Vite, Reinforcement Learning, GenAI*   Oct 2024 – Nov 2024
- Developed a personalized AI-driven quiz platform that generates flashcards using reinforcement learning
- Implemented real-time difficulty adjustment and personalized feedback systems to optimize learning and training.

TasteTrail | *Recommendation System, Scikit Learn, Data Processing, MySQL*   August 2024 – Ongoing
- Collected and preprocessed data on dishes, including ingredients, cuisine types, calories, and costs, ensuring data quality and consistency.
- Developed and trained a recommendation model using collaborative filtering techniques to suggest personalized dish options based on user preferences.
- Implemented filtering features for recommendations, allowing users to customize results by calorie content and budget constraints.

Ticket Booking Chatbot | *Generative AI, NLP, API Integration, MongoDB*   August 2024 – October 2024
- Developed a web-based travel booking chatbot with secure Firebase Authentication (email, password, Google sign-in) and Amadeus API integration for booking flights, hotels, and trains.
- Implemented payment integration with fraud prevention, and session records for future booking assistance

Countries Chain | *Java, Kotlin, Gradle*   March 2023 – May 2023
- Developed an android game to entertain kids.
- Features two interactive modes, allowing users to challenge themselves by guessing countries based on the ending letters of the previous entry within a time limit, or to compete against the computer for a thrilling gaming experience

COURSES

Machine Learning: Coursera - Stanford University
Cloud Computing: Coursera - Duke University
Data Science,Machine Learning,Deep Learning,NLP: Udemy
Software Engineering: JP Morgan Forage
Data Analysis: DataCamp
Artificial Intelligence: CS50 - Harvard University
Data Engineer: DataCamp
Supervised Machine Learning: Regression and Classification: DeepLearning.AI
Advanced Learning Algorithms: DeepLearning.AI
Unsupervised Learning, Recommenders, Reinforcement Learning: DeepLearning.AI

HACKATHON AND WORKSHOPS

Backend Workshop: ServerSide
Hackathon: S4DS - DataHack
Hackathon: Need For Code

TECHNICAL SKILLS

Skills: Machine Learning, Data Science, Data Visualization, Data engineering, PowerBi, Tableau, Full Stack Development, BackEnd Conncetion, Android App Development, Data Structures and Algorithm, Figma, StoryBlocks, Artificial Intelligence, Natural Langage Processing, Generative AI, Computer Vision, Image Processing, DevOps, Computer Security, Cloud Computing, AWS Communication, Microsoft Excel, Powerpoint AutoCad
Languages: Java, Python, C/C++, SQL (MySQL),Full Stack development using Django, JavaScript, TypeScript, HTML/CSS, Kotlin
Frameworks: React, Node.js, Flask
Developer Tools: Git, Docker, Google Cloud Platform, VS Code, Visual Studio, PyCharm, IntelliJ, Eclipse
Libraries: Pandas, NumPy, Matplotlib, Seaborn, Streamlit, Tensorflow, Keras, Sklearn, OpenCV, Scipy, Spacy, Pytorch, PyGame