

SARTHAK DALAL

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EDUCATION

Rutgers University M.S. in Computer Science	Sep 2022 - May 2024 GPA: 3.92/4.0
University of Mumbai Bachelor of Engineering in Electronics and Telecommunication Engineering	Aug 2018 - May 2022 GPA: 8.86/10

SKILLS

Languages & Frameworks:	Python, C#, C, C++, R, Java, JavaScript, ASP.NET Core, GraphQL
Web Technologies:	HTML/CSS, Bootstrap, Flask, React, Angular, NodeJS, TypeScript, Django, Selenium, jQuery
Databases:	MySQL, Microsoft SQL Server, PostgreSQL, MongoDB, DynamoDB
Cloud:	Microsoft Azure, Azure App Service, Azure SQL Database, AWS, Elastic Beanstalk
Tools:	Git, GitHub, VS Code, IntelliJ, Eclipse, Docker, JetBrains Rider, Jupyter, Bash, Heroku, Postman
Other Skills:	Azure DevOps, CI/CD , Agile Methodologies, Algorithm Design, Debugging and Testing

EXPERIENCE

[FULL LIST](#)

Google , Software Engineer	Dec 2024 - Present
<ul style="list-style-type: none">Developed a centralized, real-time Analytics Advisor Metrics Dashboard containing all key metric insights, enabling the team to precisely gauge the Gemini-powered chatbot's efficacy and directly inform critical decisions on scaling the product's launch percentage.Engineering the 'Feature Extractor' module, a crucial downstream component in the Analytics Advisor pipeline, responsible for processing user query data and extracting advanced features about the user data (including max, min, mean, standard deviation, trend, and outlier detection).Executed substantial code refactoring initiatives across the core GA4 codebase to improve long-term maintainability, code quality, and system efficiency.	

PipeIQ , Software Development Intern in Machine Learning	Jun 2023 - Aug 2023
<ul style="list-style-type: none">Engineered a customer-centric chatbot utilizing prompt engineering and LangChain agents using Python.Created a code snippet for the chatbot using HTML, CSS, and JavaScript, designed for seamless integration via Google Tag Manager, enabling clients to easily install the chatbot on their websites.Spearheaded the development of a robust FastAPI endpoint to host the PipeIQ backend on AWS Elastic Beanstalk, ensuring optimal performance and scalability for the chatbot, resulting in improved user experiences.Developed and implemented web scraping scripts to extract embeddings from client websites and store them in the Pinecone vector database, optimizing search and recommendation capabilities.Implemented strategic analytics integration using Google Tag Manager, incorporating Google Analytics, DealFront, and PeopleDataLabs onto the PipeIQ website, leading to a 35% increase in actionable insights for the marketing team.Leveraged PeopleDataLabs Data and reverse IP lookup to identify and personalize user interactions, improving lead conversion rates by 40%.	

PROJECTS

[FULL LIST](#)

MovieShop C#, .NET Core, MVC, Azure DevOps, CI/CD, Azure SQL Database, Entity Framework Core
<ul style="list-style-type: none">Developed a comprehensive MovieShop MVC Application using C# as the primary language and ASP.NET Core with Onion/Clean Architecture to implement a robust and scalable web application.
<ul style="list-style-type: none">Implemented CI/CD pipelines using Azure DevOps, ensuring seamless integration and deployment processes. Automated build and release processes, reducing deployment time by 50%.
<ul style="list-style-type: none">Configured Azure SQL Database for backend storage, leveraging Entity Framework Core for data access and migrations, efficiently managing a dataset of over 10,000 movies.
<ul style="list-style-type: none">Utilized Bootstrap for responsive design, creating a user-friendly interface that works seamlessly across various devices and screen sizes.
<ul style="list-style-type: none">Reduced database query time by 30% through optimization and indexing strategies.

PUBLICATIONS

- [1] "LexRank and PEGASUS Transformer for Summarization of Legal Documents," in **MISP 2022**,  .
- [2] "A Comparative Study on Sign Language Recognition Methods," in **ICSES 2022**, .
- [3] "Arbitrage in cryptocurrency: A survey," in **ISCON 2021**, .