

# SARTHAK DALAL



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## EDUCATION

**Rutgers University**  
M.S. in Computer Science

Sep 2022 - May 2024  
GPA: **3.92/4.0**

- **Teaching Assistant:** CS170: Computer Applications for Business (Fall 23 & Spring 24)

**University of Mumbai**  
Bachelor of Engineering in Electronics and Telecommunication Engineering

Aug 2018 - May 2022  
GPA: **8.86/10**

- **B.E. Project:** Battery Management and Data Analytics of Battery and Vehicle Data

## SKILLS

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

## EXPERIENCE

[FULL LIST](#)

**Google**, Software Engineer

Dec 2024 - Present

- **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.
- **Engineered** 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

- 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

- 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.
- Implemented **CI/CD** pipelines using **Azure DevOps**, ensuring seamless integration and deployment processes. Automated build and release processes, reducing deployment time by **50%**.
- 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**.
- Utilized **Bootstrap** for responsive design, creating a user-friendly interface that works seamlessly across various devices and screen sizes.
- 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**, 🎓📄.