

ARUN MATHEW

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EDUCATION

Yeshiva University, Katz School of Science and Health

Master of Science in Data Analytics and Visualization

New York, NY

May 2025

Relevant coursework: Python Programming, Structured Data Management, Data visualization and Story Telling

Saintgits College of Engineering

Bachelor of Technology in Computer Science

Kerala, IND

July 2020

Relevant coursework: C, Java, Python, Data Structures

Visa/Sponsorship – F1 OPT, Sponsorship Not Needed for 3 years

TECHNICAL SKILLS

Programming Languages: Python, R, SQL, JavaScript, TypeScript

Frameworks: Tableau, Power BI, MS Excel

Libraries: Numpy, Scikit-Learn, Pandas, Matplotlib, Seaborn, TensorFlow, SciPy

Databases: PL/SQL, MySQL

Web Designing: HTML, CSS, API

Domain Expertise: Git, GitHub, Jira, AWS

Certification: AWS Certified Solution Architect - Associate (Dec 2024- Dec 2027)

EXPERIENCE

Student Assistant – Yeshiva University

September 2024 - Present

- Monitored student behaviour to prevent cheating and reported any violations to faculty.
- Managed pre-exam preparations, including setting up exam materials and maintaining confidentiality.
- Collaborated with faculty and administration to ensure smooth exam execution and resolve any logistical issues efficiently.

Software Developer - Aspire NXT Pvt. Ltd.

November 2020- June 2023

- Developed Web Applications using Angular framework using JavaScript/TypeScript, HTML, CSS that satisfies the client requirement.
- Collaborated with other software developers on design, development and testing of programs.
- Designed and coded new software or modified existing software to add new features

PROJECTS

Canvas University Chatbot

Tools used: Python, Langchain, Flask

- Designed and deployed a Retrieval-Augmented Generation (RAG) based chatbot using OpenAI's GPT-4 Turbo and ChromaDB to automate academic and career-related FAQs for students.
- Built a scalable backend with Flask, integrating LangChain and Azure cloud services for high-availability deployment and 24/7 support access. Implemented the database with a focus on referential integrity.
- Developed a knowledge base by scraping and embedding data from Grad/Undergrad websites and curated FAQs, enhancing response accuracy and operational efficiency.

Tableau Project: New York Property Rolling Sales

Tools used: Python, Tableau

- A Tableau Project to analyse the property market status from the previous year and recommend valuable insights to improve future trends and performance.
- Utilized Python for cleaning and formatting dataset.
- Created Dashboard containing analysis of various factors such as economic conditions, regulations, shifts in consumer preferences which gives insights for the real estate agents

Python Project: Exploring the world of books and reviews

Tools used: Python, Pandas, Matplotlib, Seaborn, Scikit-learn

- Analysed a dataset of books and reviews.
- Conducted thorough exploratory data analysis, including data cleaning, pre-processing, and feature engineering.
- Got insights and made conclusions regarding quality, correlations and dynamics

R Project: Analysing Crime Rate in LA from 2020

Tools used: R, ggplot, Cubic Regression, Loess Regression

- Project to analyse crime rate of LA over time and derive useful insights from a dataset of crimes of LA from 2020.
- Conducted thorough exploratory data analysis, including data cleaning, pre-processing, and feature engineering.
- Made conclusions regarding increasing crime rates and made an attempt to predict future rate of crimes over time.

(View my other projects on my [Git](#) and my personal [Portfolio](#))