Samed Basti

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Github: https://github.com/samedbasti

Programming Languages: Python, Java, C, Turing, HTML, CSS, SQL

Optimization/Math: Gurobi, Linear Programming, Integer Programming

Tools and Platforms: Excel, AMPL, Postman, SharePoint, AWS, Azure

Graduation Date: December 2027

PROJECTS

Operations Research: WARP Shoe Company Optimization Project

- Developed a linear programming (LP) and integer programming (IP) model using AMPL with Gurobi to determine the most profitable production plan for a national shoe manufacturer.
- Modelled complex constraints, evaluated model sensitivity by performing LP relaxation and identifying binding constraints to provide actionable business recommendations on warehouse expansion and budget allocation.

S&P 500 Performance Data Analysis Project

- Using sector data from yfinance, analyzed S&P 500 performance for the first half of 2025.
- Created this project as part of my data analytics learning journey to strengthen my skills in Python, pandas, and data visualization.

Deop Inc. — *AI Development Project*

- Experience with Azure Platform, Azure OpenAI, AI Search, Postman Platform, SharePoint, AWS Lambda, Cloudwatch, DynamoDB, Gateway, IAM
- Developed a Private GPT AI Chatbot using OpenAI with SharePoint as an enterprise data source.

SACABC — *Web Programmer*

- Worked on revamping the website's layout and design, ensuring a modern and user-friendly appearance. This redesign aimed to enhance user engagement and streamline navigation.
- Implemented responsive design principles, ensuring the website functions seamlessly on various devices and screen sizes.
- Actively identified and rectified broken links and redirects, ensuring a seamless browsing experience for users, which has improved the website's credibility and user satisfaction.
- Collaborated with the team to optimize the website's performance by reducing page load times and improving server response. These optimizations resulted in better SEO rankings and increased user retention.

University of Toronto Engineering — *Engineering Team Leader*

- Led a group of 6 engineers to create an alternate design testing jig to test data more accurately of AFO (Artificial Foot Orthotics) stiffness for the client, Boundless Biomechanical Bracing.
- The team was tasked to complete a detailed review of testing jigs that were currently being used and propose a redesign for a new and improved mechanical testing jig.
- The alternate design of the testing jig our team came up with will be used to compare stiffness between traditional and 3D-printed AFOs in the industry of biomechanical bracing.

CERTIFICATIONS

Lean Green Belt by IISE | TCPS: CORE-2022 | AWS Partner: Accreditation (Business) | AWS Partner: Accreditation (Technical) | Google AI Essentials | Introduction to LLM by Google | Responsible AI by Google