Anuj Seshan

Personal Portfolio

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SENIOR DATA EXPERT - DATA ANALYTICS & SUPPLIER DATA MANAGEMENT

Expertise in Data Science, Business Analytics and Machine Learning

Professional Summary: A highly motivated and detail-oriented individual with an adept skillset in fields like Project Management, Supplier Data Analytics and the Office of Executive Management

Key Skills

- Microsoft Excel
- Microsoft Power BI
- Automation Anywhere
- Python
- RStudio
- Tableau
- KNIME Analytics
- Power Automate
- DuckDB
- Google Vertex AI
- Alteryx
- Apache Spark
- SQL
- n8n
- crewai
- Problem Solving
- Communication
- Composure
- Leadership
- Teamwork

Professional Profile

Expert in Data Intelligence and Strategy: Specialized in designing analytical solutions, forecasting negotiation potential and business intelligence dashboards to report areas for probable savings and negotiation potential while also advising who an ideal supplier is to supply a material or service to meet high priority demands and avoidance production line stoppages.

Data Science and RPA: Deploying and Creation of Long term Demand Forecasts using Neural Networks and Time Series Modelling while also creation of multiple process automation solutions using Automation, Anywhere, Power Automate.

Career Path

July 2023 - September 2025: Robert Bosch GmbH
October 2022 - July 2023: Operations and Sales Analyst Intern | Vaegter Technovations Pvt Ltd

Work Experiences

July 2023 - September 2025: Robert Bosch GmbH

- Analyzing and Handling Supplier Data for an increase in purchase forecasts for our manufacturing plants which helped yield significant profitability.
- Designing and Deployment of Process Automation solutions using tools like Robocorp, KNIME Analytics, Power Automate and Automation Anywhere.
- Creation of Simple Chatbots using Power Automate and Communication Platforms like Outlook and Microsoft Teams.
- Management of €20.2M worth of Purchase Order Data of Petrochemicals and Personal Protectivity Equipment as a Fresher and presentation of a Power BI Dashboard to Senior and Executive Plant Management to identify Potential and Recurring Savings.
- Achieved a saving of €2.3 Million in GST Returns using purchasing knowledge acquired and Visual Basic Applications.
- Had a vital role in analyzing automotive suppliers data for an €8M project for a new Bosch plant, BGSW EC 360 Park.
- Managed and Analyzed Supplier Data for a €14 Million Bosch Business Mobility Project involving the “Big 4” Consultancy Firms and Tier-1 Consultancy Firms .

Education

Bachelors of Honors - Data Science and Analytics : Jain University School of Sciences. **9.15/10 CGPA**
Grade 11 and Grade 12 : Christ Pre University College Residential

Certifications

- Python for Data Science and Machine Learning
- Harvard Business School Business Analytics
- Microsoft Excel Manipal Prolearn
- Microsoft Excel Windows
- Google Analytics
- Tableau Certification
- Coursera Google Data Analysis
- Microsoft Power BI
- JP Morgan Chase Corporate Analyst Development Program
- Databricks Lakehouse Fundamentals
- Alteryx
- Posterwa
- Zeal Life Skills
- Participation in Swedish Cultural Exchange
- Data Visualization for Tata Group
- Red Bull Analytics
- PricewaterhouseCoopers Certification
- Data Science for British Airways
- Data Insights for KPMG AU
- Bosch Certifications
- AI Certifications

Personal Information

Date of Birth: 30th January 2002 **Nationality:** Australian **Languages Spoken:** English and French

Projects

Project Name: AI based Text, Image to Image Search using Weaviate, NVIDIA NIM, json and Base64

Title: Ferrari Model Image Search using Text, Images and URLs

Start Date: 2025-07

End Date: 2025-08

Description: This project implements a **multimodal text-to-image** and **image-to-image search system** focused on **Ferrari Models**, leveraging **Weaviate Cloud** as the **vector database**. Using the **NVIDIA multimodal embedding API**, Ferrari images are processed and converted into vector representations through **base64 encoding**, enabling seamless storage and retrieval within Weaviate.

The system employs **cosine similarity** to compute vector distances, ensuring **highly accurate identification** of **visually** and **semantically similar Ferrari models**. Users can query the system using text descriptions, reference images, or URLs, allowing flexible search modalities.

The pipeline efficiently maps both textual and visual data into a shared embedding space, enabling cross-modal search capabilities—such as retrieving the closest Ferrari models and their attributes from an image input or text prompt.

Project Name: RAG Chatbot using n8n, Google OAuth, Pinecone, Gemini Embeddings and OpenRouter

Title: RAG Chatbot with open source documentation

Start Date: 2025-07

End Date: 2025-08

Description: This project delivers a **Retrieval-Augmented Generation (RAG) chatbot** pipeline built with **n8n**, **Pinecone**, **Google OAuth**, and **Alibaba's LLM models**. User authentication documents are securely handled through Google OAuth, ensuring protected access to chatbot services. The system uses n8n as the platform layer to **automate data flow** between **Java functionality based components**.

User queries are enriched through retrieval from Pinecone, where user uploaded documents are **embedded** as **contextual documents** using Gemini's **Gecko Embedding Model** which are then stored as vector representations. Relevant context is fetched using **similarity search** and data is later retrieved via using any LLM provided by the **OpenRouter API**.

Project Name: Petrochemicals and Personal Protective Equipment Purchase Order Analysis

Title: Purchase Order Analysis for Petrochemistry and PPE

Start Date: 2023-09

End Date: 2025-03

Description: Analysis and Management of €20.2M worth of Purchase Order Data of 2 years (2024 and 2025) for Petrochemicals and Personal Protectivity Equipment as a Fresher and deployment and presentation of a Power BI Dashboard to Senior and Executive Plant Management to identify Potential and Recurring Savings.

Project Name: Bosch Global Software Technology Private Limited ETS Supplier Analysis

Title: PAN India - Employee Transportation Services Supplier and Rate Analysis

Start Date: 2024-01

End Date: 2025-01

Description: Analyzed and Managed automotive suppliers data for an €8M ETS (Employee Transportation Services) project for a new Bosch plant, BGSW EC 360 Park which had Pan India locations where me and procurement team were able to achieve a saving of -10%.

Project Name: Equity Stock Forecast using Time Series Modelling (ARIMA and Financial Metrics)

Title: Time Series and Financial Analytics Project

Start Date: 2022-04

End Date: 2022-05

Description: While having a huge interest in forecasts and equity stocks, I designed and deployed a stock analysis and forecast algorithm using which used the **Yahoo Finance API**, **A/B Testing**, **Linear Regression** and **XGBoost** Machine Learning Algorithms, Moving Average Models **(ARIMA and ARMA)** and Estimation Techniques like **Monte Carlo Simulation**, I was able to create a forecast project which was able to achieve a reasonable accuracy of 80%.
I was also able to implement this in RStudio using packages and libraries such as **xts**, **tidyverse**, **dplyr** and **lattice** while also integrating it with **Shiny** in an effort to make a Web Application.

Project Name: Neural Network - Binary Classification

Title: Bored Ape Yacht Club and Mutant Ape Yacht Club NFT Classification.

Start Date: 2023-03

End Date: 2023-04

Description: Deployment and Design of a **2D Convolutional Neural Network** which had been **trained** and **validated** on a set of 25 images of the Ape Image NFTs wherein each image of the NFT was scraped using **beautifulsoup4, webscraper.io's API** and tested using **Postman**. After which I which had then also downloaded a few images of the Mega Mutant Ape Yacht Club NFTs so as for a few irregularities and for the Neural Network to accurately predict what image of the NFT it was.
I also was able to create a small scale **recommendation system** using **neural networks**, **pandas** and **gridsearch** wherein I was able to recommend an Ape NFT on the basis of color, accessory and characteristics.