

Komal Chamyal

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Profile

Dynamic and Results-Driven Professional in Business and Technology.

I've been passionate about programming and data for six years. At Aays Analytics, I discovered my knack for business as well. I excel in problem-solving, machine learning, data analysis, modeling, and client relations. Known for combining technical and business skills, I drive impactful projects. I have strong leadership, communication, and problem-solving abilities, and I'm dedicated to automating challenges with code. Quick to learn due to my logical approach, I seek opportunities to leverage my skills for transformative projects and organizational success.

Education

University of Delhi, B.Sc in Computer Science (Hons) Oct 2020 – July 2023

- CGPA: 8.851/10 ([Transcript](#))
- *Minor*: Mathematics
- *Coursework*: Data Structures and Algorithms, Software Engineering, Digital Image Processing, Information Security, ML, AI, Operating Systems, Computer Networks.

IIT Madras, Diploma in Programming Jan 2021 – Feb 2024

- CGPA: 8.02/10 ([Transcript](#))
- *Coursework*: System Commands (BASH), Modern Application Development (Python Flask+Vue.js), Database Management Systems, OOP-Java, DSA - Python

Experience

Associate Data Scientist, Aays Analytics – Gurugram, India Nov 2023 – Present

- Exposure to Gen AI/LLMs and various deployment techniques used in the industry to solve customer problems using Chatbots (Knowledge Retrieval using LLMs), Time Series Analysis, Intelligent Variance Analysis- Anomaly Detection using External Benchmarks
- Aays Hackathon 2023 – Implemented a Zero Shot Learning Classification model (Hugging Face) to classify customer service user queries. Segmented the queries which gave insights into customer behaviour.
- OpenAI – Fine tuned GPT-3.5 to summarize pyteseract OCR text into required business KPIs from Non-scannable PDFs. Worked with OpenAI API to generate training data for a custom LLM model.
- RAG System - Implemented a part of Retrieval system within a React + Vite web application (ReactFlow) using a mind map approach. The system was designed to seamlessly integrate with an LLM, facilitating the generation of more contextually appropriate responses. Link to POC - <https://my-mind-map.netlify.app/>

Associate Data Analyst, Aays Analytics – Gurugram, India July 2023 – Present

- Immense Client Appreciation for handling a very complex project.
- Utilizing Power BI dashboards, Excel, Azure, Databricks and Probelem solving to provide valuable insights into the business challenges encountered by clients.
- Power BI reporting – worked on PBI reporting of innovation projects and finance projects of a client. Developed complex DAX measures to solve business problems. Created various complex Power BI capabilities like dynamic user input based visualizations, 3x3 Simulation Grid and more.
- Worked with clients to bring wireframes to life, understand their requirements and pain points, and finally suggest and execute the solutions decided upon.
- Testing - Performed testing in Excel using Vlookups/Pivots and developed various SITs for data assets.

Projects

Big Mart Sales Analysis & Prediction

 [GitHub](#)

- Performed Data Cleaning, EDA, Pre-Processing, Modelling and Hyperparameter Tuning
- Models used/experimented with: Linear, Polynomial, Ridge, Lasso, SGD Regression; Decision tree, Random Forest, XGBoost, LightGBM
- Technologies Used: Python - Sklearn, SHAP, NumPy, Pandas, Matplotlib, Seaborn

Car Sale in Russia Analysis

 [GitHub](#)

- Performed Data Cleaning, Data analysis and Visualisation of a car sale dataset of Russia
- Technologies Used: Python - NumPy, Pandas, Matplotlib, Seaborn

Urban Shopper - Grocery App

 [GitHub](#)

- Grocery app like Blinkit/Swiggy. Logging in as admin and managers (RBAC). The user can log in and add items from different categories to their carts and checkout. Backend daily reminders and a monthly analysis report also sent to the user.
- Technologies Used: Flask, Vue.js, Redis, Celery, SMTPLib

Additional Experience

Python Lead Student Mentor, IIT Madras – Remote

Aug 2021 – Sept 2021

- Managed and led a team of two sub-mentors and a group of 16 students
- Organized 2-hr Python coding sessions everyday and helped the students with their doubts. Gave hints and demonstrated concepts as per need - Focusing on Code-First Approach.
- Students who had failed their programming exam took these sessions and everyone was able to pass easily after attending them.
- One student was able to solve the entire 2 hr paper correctly in just 20 mins.

Coordinator at Enactus Hansraj, Hansraj, University of Delhi – Delhi

Jan 2021 – June 2021

- Worked on real-time social entrepreneurship projects driven by students.
- Armaan: Transforming the lives of drug addicts by providing self-sustaining entrepreneurship opportunities. Innovated by creating dishwashing scrubbers from used coconut husks, promoting sustainability. We planned to teach the addicts to make this easy product and support themselves as entrepreneurs.
- Nirmalya: Conducted the initial research and development to create potpourri from flower waste collected from temples. The R&D was successful, and the project was successfully launched.

Technologies

Programming Languages: Python, C++, Java, SQL, JavaScript, R, DAX, M-code, Shell Scripting

AI/ML: OpenAI/Azure Open AI, NLP, Generative AI (LLMs), OpenSource (HuggingFace), PyTorch, TensorFlow, Transformers, LangChain, Streamlit, APIs, Prompt Engineering

Tools/Software: Power BI, Azure, DataBricks, MS Excel, GIT, Swagger Editor, Postman/Insomnia,

Development: Vue.js, Flask, REST APIs, Linux/Bash/Shell, HTML/CSS, jQuery, AJAX, SQL-Alchemy

DBMS: SSMS, MySQL, PostgreSQL

Additional Skills

Problem Solving, Client Services and Relations, Communication (Written/Verbal), Analytical and Logical Thinking, Self-Starter, Leadership, Team Collaboration, Curiosity and Willingness to Learn, Quick Learner, Passionate and Driven

Cerifications

Microsoft Certified: Power BI Data Analyst Associate (PL-300)

Sept 2023 – Present