

# Komal Chamyal

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## Profile

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### Innovative Data Scientist with a Passion for Sustainability.

With six years of experience in programming and data (since high school), I've honed my skills in problem-solving, machine learning, data analysis, and modeling, alongside developing a strong business acumen at Aays Analytics. I excel in blending technical expertise with business insights to drive impactful projects. Known for my leadership, communication, and problem-solving abilities, I am dedicated to automating challenges with code. My logical approach and quick learning ability fuel my passion for leveraging my skills in transformative projects and achieving organizational success.

## Experience

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**Associate Data Scientist**, Aays Analytics – Gurugram, India Nov 2023 – Aug 2024

- 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 pyesseract 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 – Nov 2023

- 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.

## Education

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**IIT Madras**, Diploma in Programming 2020 – 2023

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

**University of Delhi**, B.Sc in Computer Science (Hons) 2020 – 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.

## Open Source

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### Project Hello World

Aug 2024 - Present

- Objective: Research eco-friendly alternatives using open-source technologies, rather than LLMs, to build a robust ChatBot for the plant domain.
- Role: As the team lead for our diverse group—including data scientists (myself included) and AI enthusiasts—I oversee all aspects of team operations, project management, and mentorship. I ensure that each team member pursues their passions, aligns their work with our collective goals, and fosters a collaborative and spirited team environment.

## Independent Projects

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### 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

### 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

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### 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 - India

Jan 2021 – June 2021

- Worked on real-time social entrepreneurship projects driven by students.
- Armaan: 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

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**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, REST APIs, Prompt Engineering

**Tools/Software:** Power BI, Azure, DataBricks, MS Excel, GIT (CI/CD), 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

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Problem Solving, Analytical Thinking, Leadership, Client Relations, Communication, Team Collaboration, Quick Learning, Curiosity, Self-Starter, Passionate and Driven

## Certifications

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

Sept 2023 - Sept 2024