

# Komal Chamyal

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## Profile

Versatile Data Scientist with hands-on experience in machine learning, GenAI, NLP, and full-stack development paired with sharp business insight. Proven ability to translate complex data into actionable business insights and scalable AI solutions, contributing to organizational success. Recognized for leadership, communication, and a logical, fast-learning mindset.

## Experience

**Junior Data Scientist**, ProArch — Remote Dec 2024 – Present

- Part of the solutioning team innovating and delivering Generative AI capabilities.
- **Fabric Opportunities Platform** — Developed end-to-end Fabric and Azure pipelines, integrating data from HubSpot and Autotask into a unified platform for BI reporting and AI applications.
- **Email Multi-Label Classification** — Trained and deployed transformer models (BERT, RoBERTa, DistilBERT) to classify synthetically generated promotional emails into Scan, Rebate, or Lump Sum categories.
- **AI Avatar** — Created an interactive voice avatar using open-source models (Coqui-TTS, SadTalker), Azure Speech Studio, and ElevenLabs; built a Flask chatbot enabling real-time voice cloning and user interaction.
- **AI-Driven SQA Tool** — Developed a Generative AI tool to auto-generate test cases, test data, metadata, and Selenium scripts from SRS documents, UI screenshots, and user stories; integrated generated tests into Azure DevOps.

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

- **OpenAI LLM Fine-tuning** — Fine-tuned GPT-3.5 using OpenAI API to extract KPIs from PyTesseract OCR text in non-scannable PDFs; generated training data for custom LLM models.
- **Zero-Shot Classification** — Implemented zero-shot classification models with Hugging Face transformers to segment customer service queries, revealing customer behavior insights.
- **Power BI Dashboards** — Delivered advanced dashboards featuring complex DAX and dynamic visualizations for finance and innovation projects.
- **Client Collaboration** — Translated wireframes into dashboards and scalable solutions across Excel, Azure, and Databricks; praised for delivering innovative insights even under tight deadlines.
- **RAG System Development** — Developed a Retrieval-Augmented Generation (RAG) component within a React + Vite app (ReactFlow) using a mind map approach to enhance LLM contextual responses.

## Education

**HansRaj College, University of Delhi**, B.Sc in Computer Science (Hons) 2020 – 2023

- CGPA: 8.851/10 ([Transcript](#))
- Minor: Mathematics

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

- CGPA: 8.02/10 ([Transcript](#))

**12th, AVBIL Haldwani**, PCM 2020

- Score: 97.25% ([Transcript](#))

## 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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<b>Languages</b>	Python, SQL, JavaScript, Bash, Java
<b>ML/AI Frameworks</b>	PyTorch, TensorFlow, scikit-learn, Hugging Face, LangChain
<b>Data Engineering</b>	Spark, Fabric, Azure Data Factory, SQLAlchemy, Databricks
<b>Visualization</b>	Power BI (DAX), Excel, Plotly, Matplotlib
<b>Web/API Dev</b>	Flask, Streamlit, Vue.js, REST APIs
<b>Tools/DevOps</b>	Git, Docker, Postman, Linux, CI/CD

## 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: Fabric Data Engineer Associate (DP-700)

Jun 2025 – Jun 2026

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

Sept 2023 - Sept 2024