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

Associate Data Scientist, ProArch — Remote   Dec 2024 – Present

- **Supply Chain Forecasting** — Developed LGBM-based demand forecasting models for SKU-level inventory, improving accuracy across national and branch hierarchies. Implemented hierarchical forecasting with MinT (MinTrace) reconciliation. Improved Forecast Accuracy from <50% to 75%.
- **Fabric Opportunities Platform** — Developed end-to-end Fabric pipelines, integrating data from HubSpot and Autotask into a unified platform for BI reporting and AI agents.
- **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

PCOD Cycle Prediction 🔗 GitHub
- A Streamlit-based ML powered application to analyze menstrual cycle data and predict upcoming cycles for PCOD patients. Moving Average model used finally.
- Models Considered: ARIMA, Exponential Smoothing, Linear Regression, Random Forest, XGBoost, Moving Average (MA) Weighted Moving Average (WMA)

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

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

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

Additional Skills

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

Certifications

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