Aman Kataria

Roll No.: 22CS3008
B.Tech. Computer Science and Engineering
Rajiv Gandhi Institute of Petroleum Technology

+91 8076889975
amankataria1647@gmail.com
22cs3008@rgipt.ac.in
github.com/amankataria100
linkedin.com/in/aman-kataria

EDUCATION

Degree/Certificate	Institute/Board	Year
B.Tech. (CSE)	Rajiv Gandhi Institute of Petroleum Technology	2022-2026
Senior Secondary	Pioneer Convent Sr. Sec. School, CBSE Board	2022
Secondary	Divine Happy Sr. Sec. School, CBSE Board	2020

EXPERIENCE

- **Saanvi Fasteners Pvt Ltd**   *May. 2025 – Jul. 2025*
  Data Analyst Intern
  - Analyzed large datasets to reduce inventory carrying costs by 15% and streamline order processing by 25%, improving overall operational efficiency.
  - Conducted data-driven market research and customer segmentation, providing insights that supported strategic decision-making.
  - Utilized SQL, Advanced Excel, Tableau, and Power BI to perform data extraction, visualization, and business intelligence reporting.

PROJECTS

- **End-to-End-Federated-Learning-Healthcare-Platform**
  - Built hybrid federated learning architecture with advanced RAG pipelines and multi-agent orchestration using CrewAI; achieved 45% faster training while maintaining HIPAA compliance for patient data protection.
  - Integrated OCR technology for prescription digitization (94% accuracy); implemented conversational search system with fine-tuned LLMs using LoRA and prompt engineering techniques for clinical explanations.
  - Developed AI-native developer tools with MCP servers and LLM observability frameworks; achieved 3.2x faster inference on edge devices while maintaining model accuracy.

- **LegalVoice.ai**
  - Built multilingual voice-to-text system supporting 8 regional languages with 92% accuracy; implemented agentic workflows with AutoGen for automatic legal form identification and processing.
  - Created advanced RAG system with hybrid retrieval strategies for legal document analysis; applied QLoRA fine-tuning and few-shot learning to reduce document processing time by 73% .
  - Developed AI agent framework with tool-calling patterns for real-time voice processing; achieved 40% reduced latency through prompt optimization techniques .

- **Empowering Machine Readable Document Management System**
  - Integrated advanced RAG pipelines with HyDE and query decomposition for document extraction; achieved 70% reduced storage via structured JSON/XML conversion using prompt engineering and few-shot learning.
  - Applied multi-agent systems with tool-calling patterns for resource-constrained environments; maintained 95% of original accuracy using MCP servers on edge devices.

SKILLS

- **ML Frameworks and Libraries:** TensorFlow, PyTorch, Keras, Scikit-Learn, OpenCV, NumPy, Pandas, Hugging Face, FastAPI, MLFlow, Prophet, PowerBI
- **Language:** C/C++, Python, JavaScript, TypeScript, Java, HTML5, CSS3, MySQL, Flask
- **Development Frameworks:** React, Node.js, Express.js, MongoDB, Socket.io
- **Tools:** Git, Docker, Google Colab, Kaggle, VSCode, AWS SageMaker, Jupyter Notebook

POSITIONS OF RESPONSIBILITY

Partnership Development Coordinator | Social Services Council – RGIPT   *2024 – 2025*

- Cultivated and managed relationships with external organizations to secure resources and collaborations.
- Negotiated and finalized partnership agreements to support community outreach programs.
- Organized and oversaw large-scale events and campaigns, showcasing strong project management and organizational skills.

Public Relations Coordinator | Google Developer Students Club   *2023 – 2024*

- Developed and executed communication strategies to promote club events and brand identity.
- Managed the club's social media presence and digital channels to increase engagement and visibility.