

# DIVAKAR KUMAR

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## PROFESSIONAL SUMMARY

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Generative AI Engineer with 4+ years of experience in Python, Machine Learning, Deep Learning, and natural language processing (NLP). Skilled in LLM fine-tuning, predictive modeling, and deploying scalable AI solutions using Azure, Databricks, and Agentic frameworks. Strong in problem-solving, clean code, and cross-functional collaboration. and committed to continuous learning through personal projects in Data Science, AI/ML, and broader AI space.

## SKILLS

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- **Programming Languages:** Python, SQL, NoSQL | • **API & Tools:** FastAPI, Postman
- **Python Libraries:** Pandas, NumPy, Matplotlib, Seaborn | • **Data Visualization:** Power BI, Qlik Sense
- **ML libraries:** Scikit-learn, SpaCy, NLTK, PyTorch, TensorFlow
- **Statistics, Machine Learning, Deep Learning algorithms, Natural Language Processing, Computer Vision**
- **Databases:** MySQL, MongoDB, PostgreSQL | • **Web Framework:** Flask, Streamlit, Chainlit, Gradio
- **Infrastructure & DevOps:** CI, CI/CD, Docker, Kubernetes, GitHub, Git, Azure DevOps | • **MLOps:** MLFlow
- **Deployment & Infrastructure:** Docker, Kubernetes | • **Cloud Platforms:** AWS, SageMaker, GCP Vertex AI, Azure
- **LLMs Frameworks:** Whisper, HuggingFace, Azure OpenAI, Gemini, Mistral, OpenAI, Prompt Engineering, DALL-E, LlamaParse, fast whisper, Amazon Bedrock, Anthropic | • **Databricks** | • **MCP** | • **A2A Protocol**
- **Soft Skills: Communication,** Collaboration, Stakeholder Alignment, Documentation, Best Practices, Design Patterns
- **Agentic Frameworks:** LangChain, Langgraph, Crewai, Google Agent Development Kit, Agno, Pydantic ai, OpenAI SDK
- **Vector database:** FAISS, ChromaDB, Qdrant | **Core Software Engineering:** Software, Backend, Software Engineer

## EXPERIENCE

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**Engineer – BI, Exponentia.ai Pvt Ltd, Mumbai IN**

*Jul 2023 – Present*

- Developed a Retrieval-Augmented Generation (RAG) system combining structured and unstructured data to support interactive Q&A capabilities for enterprise users.
- Developed scalable data pipelines with embedded monitoring to track model accuracy and system reliability. for multi-modal data ingestion (documents, images, ppt, invoices, video, audio), reducing data processing time by 30% and reduction in data processing time through optimized pipeline architecture and parallel processing techniques.
- Developed and deployed multi agent supervisor AI agents tailored for individual departments across the organisation, enabling context-aware task execution, intelligent automation, and domain-specific decision support.
- Maintained strong communication with business stakeholders and cross-functional engineers to prioritize AI initiatives.

**Associate Business Intelligence Engineer, Exponentia.ai Pvt Ltd, Mumbai IN**

*Nov 2021 – Jun 2023*

- Developed 20+ dashboards for FinTech companies and private banking clients, delivering custom visual analytics and intuitive user interfaces to meet changing business requirements.
- Led internal initiatives and poc projects to design, build, and deploy scalable Qlik Sense applications, speeding up business insights and decision-making and collaborated with business stakeholders to define KPIs and refine dashboard requirements.
- Automated data workflows using Qlik Application Automation and integrated predictive analytics with Qlik AutoML, increasing operational efficiency and forecasting accuracy.
- Collaborated with domain experts, data engineers, and QA teams to ensure smooth project execution and alignment with business objectives. Led multiple POCs focused on innovation in generative AI for multimodal content processing

**Data Analyst Intern, A for Analytics Pvt Ltd., Chennai IN**

*Jul 2021 – Oct 2021*

- Developed interactive dashboards for inventory tracking and procurement analytics using Power BI, improving visibility into stock levels and supplier performance.
- Developed models to predict inventory needs, reducing overstock and understock events by 20%.
- Automated data ingestion and transformation pipelines from multiple sources (Excel, databases) to streamline daily reporting and reduce manual effort by 40%.

## EDUCATION

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**Lovely Professional University**

*Bachelor of Technology in Electrical & Electronics Engineering*

**Phagwara, Punjab, India**

*Aug. 2017 – Jul 2020*

## PROJECTS

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### Multilingual RAG Pipeline for Speech/Voice/Audio and Video Transcription

- **Challenge:** Manual transcription and analysis of multilingual audio/video content created significant bottlenecks due to time-intensive processes, high error rates, and limited scalability when processing speech and on-screen text from global sources.
- **Solution:** Architected and deployed a comprehensive RAG (Retrieval-Augmented Generation) pipeline that automates multilingual content processing by integrating **speech-to-text transcription**, **optical character recognition**, and context-aware response generation using large language models.
- **Implementation:** Built a modular system combining Faster-Whisper for audio transcription and Azure OCR for video text extraction, enabling seamless cross-lingual content retrieval and intelligent summarization for enterprise-scale applications.
- **Key Features:** Engineered solution to **support 50+ languages** with full Whisper model compatibility (tiny through large variants), implementing an offline-first architecture that **eliminates dependency on internet connectivity or API keys for core transcription functionality**.
- **Impact:** Delivered scalable, enterprise-ready solution that significantly reduced manual processing time while improving accuracy and consistency across multilingual content analysis workflows.
- **Tech Stack:** Python, Faster-Whisper, Azure OCR, Azure OpenAI API / Gemini, Prompt Engineering

### Advisr-X Multi Agent

- **Challenge:** Users face difficulty when buying policies (health, vehicle, life, etc.) due to scattered information across multiple websites, complex terms and conditions, aggressive sales calls, and challenges in comparing options, reading reviews, and understanding claim processes or policy calculations.
- **Solution:** Developed Advisr-X, a multi-agent AI system coordinating specialized agents for policy advice, comparison, pricing, and claims, enabling simplified and personalized policy selection.
- Improved policy discovery and decision-making accuracy, reducing user research time and confusion, while increasing trust through transparent comparisons and real-world feedback integration. Developed and deployed end-to-end ML models for invoice data extraction and policy recommendation.
- **Tech Stack:** Python, Langchain, Langraph, Langsmith, tavily search API, Azure Openai API/Gemini, Prompt Engineering

### Invoice Extraction Chatbot (RAG Based)

- **Challenge:** Businesses encounter significant obstacles in extracting critical data from invoices, primarily due to the wide variety of invoice formats, frequent manual entry errors, and lengthy processing times. These challenges result in inefficiencies, increased operational costs, and delays in accounting and financial workflows.
- **Solution:** Developed an AI-powered chatbot with OCR and multilingual support to extract structured data (e.g., vendor, date, amount) from invoices in real time. Enabled users to upload or send invoices in multiple languages, reducing manual effort and improving processing speed and accuracy across international operations.
- Reduced invoice processing time and manual entry errors by over 60% by deploying an intelligent chatbot that automates extraction from complex and inconsistent formats.
- **Tech Stack:** Python, Mistral OCR, Gemini, PDF2Image, PyTesseract, Streamlit

### Structure Report Generation Agent

- **Challenge:** Manual research & report / article writing were time-consuming, inconsistent, and lacked depth due to limited access to up-to-date external information. platform.
- **Solution:** Developed an autonomous **AI agent** system that performs real-time web research on user-defined topics and generates structured, context-rich business and technical reports.
- Architected a modular pipeline for real-time research and report generation, enabling reusable and scalable agent workflows for diverse business use cases. Implemented quality checkpoints to validate AI-generated research and ensure consistency
- **Tech Stack:** Python, Langchain, Langraph, Langsmith, tavily search API, Azure Openai API/Gemini, Prompt Engineering

## ACHIEVEMENTS

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- **Awarded 'Best Team 2024'** for leadership and contributions to AI-driven product delivery at Exponentia.ai

## CERTIFICATIONS

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- Data Camp Data Analysis with python
- Neural Networks and Deep Learning (DeepLearning.AI)