NARENDRAKUMAR KUMAWAT
Senior Data Scientist

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PROFESSIONAL SUMMARY

Experienced analytics professional with expertise in designing & optimizing scalable digital solutions leveraging Generative AI, machine learning, deep learning, and cloud technologies to fuel business growth and innovation.

Seeking new challenges that foster continuous learning and professional growth.

SKILLS

❖ Data Science, Machine Learning & Statistics
- Machine Learning (Supervised, Unsupervised, Segmentation)
- Deep Learning
- Recommendation Engines
- Natural Language Processing (NLP)
- Generative AI (LLMs, Multi-Modal LLMs, OCR, Prompt Engineering, Agentic Workflows)

❖ Programming & Development
- Python
- Java
- Flask, FastAPI, Django
- Pyspark
- SQL (AWS Athena, MS SQL Server)
- Pandas, Numpy, ElasticSearch ELK
- Tensorflow, Keras, Pytorch, sklearn

❖ Cloud & Business Intelligence
- GenAI Solutioning, Fine-Tuning
- Agent Orchestraion
- Domain Adaptation
- Cloud (Azure, GCP, AWS)
- Power BI, Tableau
- Unix, Docker
- OpenAI, Gemini, Azure OpenAI, Anthropic, Hugging Face

WORK EXPERIENCE

❖ **Senior Machine Learning Engineer (Central R&D)**   **Jan 2024– Present**
Quantiphi Analytics (Mumbai)

- **Building enterprise-grade** solutions for **semi-structured** question-answering systems, specializing in extracting actionable insights from complex, **real-world Excel documents**.
- **Spearheading** the development of a **comprehensive LLM benchmarking tool,** *accelerating Generative AI product development by 80%*, and enhancing evaluation of client use cases across text, document, and code modalities.
- Developed **Intelligent Document Processing (IDP)** solutions to enhance **Clinical Document Management (CDM)** in **healthcare** and **life sciences**, **reducing processing time by 70%** and **human intervention by 60%** across diverse use cases.
- Pioneering semi-automated annotation generation using OCR, multi-modal LLMs, and agent-driven workflows, b**oosting operational efficiency by 50% and reducing human intervention by 80%.**
- Providing expert guidance to sales and GTM teams as an SME in advanced analytics and AI, driving **business development**.
- Conducting **research paper reviews, implementations, model benchmarking and evaluations** on custom datasets to ensure cutting-edge performance and accuracy of solutions.

❖ **DATA SCIENTIST**   **Feb 2022 – Jan 2024**
Absolutdata Analytics (Infogain), (Gurugram, Mumbai)

- **Developed** secure new-age products (Chat-Bots and RAG systems) through research and development of **Generative AI (GPT, Transformer)** based **LLMs (Large Language Models)** for both structured and unstructured knowledge base querying using tools like **Langchain**, **Vector Databases, Intelligent Document Processing (IDP), Hugging Face, Azure cognitive services, OCR,** Image analytics **etc.**
- Significantly **reduced development cycle by 70%** by designing and implementing a modularized recommendation system.
- Successfully **migrated & deployed** an On-Prem Analytics Recommendation engine to MS **Azure Machine Learning Environment**, improving scalability and efficiency.
- **Provided guidance and mentorship** to consulting, non-technical & solutions teams, optimizing data processes and implementing **data-driven anomaly detection** for a leading marketing campaign company.
- Led the Modeling phase of recommendation systems for an international beverage conglomerate, driving new customer acquisition and **increasing revenue by 8-12% through actionable insights** on customer preferences.
- Devised and implemented highly effective media marketing strategies using Market Mix modeling (MMM) framework, resulting in a **6-10% annual increase in revenue** for an international retail distributor.
- **Achieved 82% accuracy** in developing an OTT client's **review segmentation system** using advanced NLP and deep learning techniques.

❖ **ASSOCIATE DATA ANALYST**   **Mar 2021 – Feb 2022**
Accenture, (Mumbai)

- Delivered high-quality data analytics and insights in a fast-paced environment, leading data transformation and cleansing efforts that improved decision-making for internal and external stakeholders.
- Automated processes with Selenium (Java) and Python, identifying trends and anomalies that drove proactive quality enhancements and operational efficiency.
- Enhanced production efficiency by extracting and transforming raw data from quality control systems using SQL and Python, supporting critical Business Intelligence efforts.

❖ **TECHNICAL INTERN | DESIGN & INNOVATION.**   **Jan 2019 – Feb 2019**
Indian Railways (Mumbai)

- Improved efficiency by 5% through cross-functional collaboration with multiple departments identifying critical process improvements.
- Trained technicians in Lean principles, cutting processing time by 8%, and coordinated an internship program with on-time report delivery.

COURSES & CERTIFICATIONS

- Python from Udemy, SQL for Data sciences from Udemy.
- Full Stack AI Engineer & Data Analytics from Accenture.
- AZ-900 Microsoft Azure cloud certification from Microsoft.
- Pursuing Microsoft **Azure- Data Scientist (DP-100)** Certification.
- Pursuing **GCP Associate Cloud Engineer** (ACE) Certification.

EDUCATION

- **B.Tech** - **[2020] Pune University** CGPA 8.38/10

ACHIEVEMENTS

- Awarded **"Best Performer"** for H1-2024, recognized for driving high-impact AI/ML initiatives.

PROJECTS

Deep learning-based Audio class prediction (*Python, Tensorflow, Django, Librosa) **(2021)***
Developed and implemented an AI-powered (Deep Learning) web application that accurately automates audio sound classification with an **80% accuracy**. Integrated the application seamlessly with Django web framework to deliver better user experience.