Abhishek Singh

AI Engineer | NLP & MLOps Expert | Data Scientist | Data Engineer

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PROFESSIONAL SUMMARY

AI & Data Professional transitioning into a GenAI-focused role, with 2.5 years of work experience and 4+ years of domain experience in deploying ML & NLP systems at scale. Skilled in building end-to-end AI solutions—from data pipelines and model training to deployment with Docker and FastAPI. Recently worked on OpenAI, LangChain, and Retrieval-Augmented Generation (RAG) architectures for production-ready solutions.

CORE KEYWORDS

Generative AI, LangChain, RAG, LLM, NLP, Prompt Engineering, Vector DBs, FAISS, Chatbot, FastAPI, Streamlit, OpenAI API, Embeddings, Transformers, Azure ML.

SKILLS

Languages: Python, PySpark, Spark, SQL
Frameworks: Scikit-learn, Pandas, NumPy, TensorFlow, FastAPI, Streamlit
AI/GenAI: OpenAI API, LangChain, LLMs, Hugging Face, Transformers, Prompt Engineering, RAG, NLP
MLOps & Deployment: Docker, Git, CI/CD, Azure App Service
Tools & Platforms: Azure, Power BI, MLflow, Snowflake
Atlassian Tools: Jira, Bitbucket, Confluence

EXPERIENCE

Data Scientist – Corp Tech (Team CVD)
Vcreatek Consulting (Client: Kenvue)
2023-01 – Present Pune, Maharashtra

1. **POS Forecasting Optimizer – Time Series Demand Prediction**
    - Developed and deployed an end-to-end time series forecasting solution to predict sales trends and demand patterns.
    - Applied statistical models and machine learning techniques to enhance forecast accuracy and reduce prediction errors.
    - Automated the forecasting pipeline using Azure Data Factory (ADF) with logging, monitoring, and scheduled triggers.
2. **TEXTSPECTRUM – No-Code NLP Web App Powered by Traditional & OpenAI Models**

- Created a no-code NLP web application enabling users to perform complex NLP tasks without writing a single line of code.
- Designed an intuitive UI that allows marketers, analysts, and non-tech users to extract insights from large-scale textual data.
- Backed the app with a hybrid of traditional NLP algorithms (TF-IDF, CountVectorizer, Vader, LDA, BERT) and OpenAI models for enhanced understanding and flexibility.
- Key features included: Sentiment Analysis, Key Phrase Extraction, Topic Modeling, Text Classification, "Chat with Data" – an interactive, LLM-powered assistant to analyze data conversationally

3. **Claim Recovery Solution – AI-Powered Contract Validation**
    - Developed a GenAI-driven solution to automate deduction claim validation against contractual agreements, minimizing manual review efforts.
    - Leveraged NLP and contract understanding models to classify claims as valid or invalid from unstructured textual data.
    - Enhanced compliance tracking and operational efficiency through automated contract intelligence.
4. **TDP (Space-Aware Assortment Optimizer)**
    - Built a planogram optimization model to optimize product assortment and shelf space allocation.
    - Used constraint optimization techniques and machine learning to dynamically allocate shelf space based on demand and sales trends.
    - Delivered business insights on optimal product positioning, increasing sales efficiency.
5. **Walmart Pricing Analytics – Price Elasticity Modeling**
    - Conducted pricing analytics by analyzing delta price vs. delta sales to optimize revenue strategies.
    - Built models to evaluate price elasticity and recommend optimal pricing adjustments in real-time.
    - Provided insights to stakeholders for real-time pricing decisions and margin optimization.

CERTIFICATES

None

EDUCATION

2021-23 PGDM: Research and Business Analytics

Prestige Institute of Global Management, Indore, MP

2017-20 Bachelor of Commerce

Renaissance College of Commerce & Management, Indore, MP

INTERNSHIP

Data Science Intern (In-House POC)
Vcreatek Consulting
2023-06 – 2023-08 (3M) Pune, Maharashtra

E-Commerce Review Analytics – GenAI-Powered Insights Dashboard

- Developed an end-to-end analytics tool to extract, process, and analyze customer product reviews from e-commerce platforms using web scraping (Selenium, BeautifulSoup, APIs).
- Applied advanced NLP techniques, including sentiment analysis, key-phrase extraction, topic modeling, and text classification, to derive actionable insights from unstructured text data.
- Visualized results in an interactive Power BI dashboard, enabling real-time exploration of customer sentiment trends, key concerns, and emerging topics.
- Integrated GenAI models for more accurate summarization and contextual understanding (optional enhancement roadmap).
- Enhanced decision-making for product teams by automating review analysis and surfacing critical customer feedback through GenAI-powered text intelligence.

GitHub Profile

GitHub