

# Abhishek Singh

AI Engineer | Data Scientist

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## PROFESSIONAL SUMMARY

Strategic and hands-on **AI Engineer** with 3.3 years of work experience and 5+ years of domain experience driving next-gen innovation in **Generative AI, NLP, and Agentic RAG systems**. Creator of **RAGentX**, a smart autonomous assistant blending LLMs, memory, planning, and tool use for intelligent task execution. Skilled in building end-to-end AI solutions across forecasting, optimization, and GenAI-powered analytics.

Combines deep technical expertise with product thinking and system design to deliver AI that doesn't just scale — it **adapts, reasons, and creates**. Self-driven, outcome-obsessed, and always building what's next.

## CORE KEYWORDS

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

## SKILLS

**Languages:** Python, SQL, PySpark

**Libraries/Frameworks:** Scikit-learn, XGBoost, LightGBM, PyTorch, TensorFlow, Pandas, NumPy

**LLMs & GenAI:** OpenAI API, LangChain, LlamaIndex, Hugging Face Transformers, Prompt Engineering, RAG

**Agentic AI:** LangGraph, CrewAI, AutoGen

**Vector DBs:** FAISS, Chroma, Pinecone

**Deployment & MLOps:** FastAPI, Docker, Git, MLflow, CI/CD, ONNX

**Data Engineering & Automation:** Apache Spark, Airflow, Azure Data Factory (ETL Automation), Snowflake, PostgreSQL, MongoDB

**Cloud & DevOps:** AWS (SageMaker, Lambda, S3), Azure, GCP (Vertex AI), GitHub Actions, Kubernetes

**Visualization & Tools:** Streamlit, Power BI, Plotly, Jira, Confluence





## EXPERIENCE

AI Engineer | Data Scientist – Corp Tech (Team CVD)

[Vcreatek](#)

📅 2023-01 – Present 📍 Pune, Maharashtra

- 🔗 **EPRMate – Agentic Packaging Attribute Enrichment System:**  
Built an agentic data pipeline to auto-enrich missing packaging attributes, enabling precise EPR fee calculation. Reduced data gaps by 90%, cut manual fixes by 70%, and boosted regulatory compliance. Leveraged rule-based logic, ML inference, and external product registries for intelligent attribute reconstruction.

-  **TEXTSPECTRUM – No-Code NLP App:**  
Built a zero-code NLP platform powered by classical ML/NLP + OpenAI models, enabling non-technical users to extract insights from unstructured text. Key modules included sentiment analysis, topic modeling, classification, and a ChatGPT-like assistant.
-  **POS Forecasting Optimizer:**  
Designed a retail sales prediction engine using ARIMA and Prophet with >92% accuracy. Automated deployment using Azure Data Factory with monitoring, triggers, and logging for seamless scheduling.
-  **Claim Recovery Engine:**  
Created a GenAI-powered solution to validate deduction claims against contract clauses using NER and clause parsing. Enabled \$500K+ potential recovery through automation and policy compliance.
-  **TDP – Space-Aware Assortment Optimizer:**  
Developed an ML + heuristic model to optimize product placement on shelves. Reduced 18% shelf-space waste and helped merchandisers identify high-impact assortment strategies.

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## Flagship Open-Source Project – RAGentX


### Agentic AI Research & Execution Assistant | 2024 – Present

Built a full-stack GenAI assistant combining RAG, vector search, and long-term memory using LangChain, OpenAI, and Toolformer-style planning. Features autonomous task execution, API tools, and Trello-style UI built with FastAPI, Streamlit, and TailwindCSS.

## EDUCATION

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 PGDM: Research and Technical Business Analytics -> 2021-23  
[Prestige Institute of Global Management](#), Indore, MP

 Bachelor of Commerce -> 2017-2020  
[Renaissance College of Commerce & Management](#)  
Indore, MP

## INTERNSHIP

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Data Science Intern (In-House POC)

[Vcreatek](#)

 2023-06 – 2023-08 (3m)  Pune, Maharashtra

### E-Commerce Review Analytics – GenAI-Powered Insights Dashboard

- Built an end-to-end dashboard to summarize 100K+ customer reviews using scraping, NLP, and GenAI. Delivered visual insights through Power BI with sentiment trends and topic clustering.
- Applied advanced NLP techniques, including sentiment analysis, key-phrase extraction, topic modeling, and text classification, to derive actionable insights from unstructured text data.

## MAJOR CLIENTS

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| • Johnson & Johnson | • Kenvue | • 84.51° |
| • Walmart           | • Target |          |