


TANMAY KALBANDE

Data Scientist & Software Engineer

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 Nagpur, Maharashtra

PROFESSIONAL SUMMARY

Software Engineer with 1.8 years of experience building AI systems and data-driven solutions. Proven track record in developing multi-agent AI systems, predictive models, and customer segmentation tools that deliver measurable business impact. Skilled in Python, SQL, and machine learning frameworks, with hands-on experience deploying production-grade solutions that improve operational efficiency and decision-making.

PROFESSIONAL EXPERIENCE

Software Engineer

Apr 2024 - Present

Capgemini

- Developed multi-agent AI work note formatter using Flask and AI models, transforming unstructured service desk notes into structured knowledge base entries, reducing resolution time by 35%
- Built real-time quality assurance pipeline with dual AI agents, improving knowledge base reliability by 60% through automated error detection and validation
- Designed knowledge generation engine that enhanced team documentation accessibility by 45%, streamlining information retrieval processes

Data Analyst Trainee

Nov 2022 - Dec 2023

Rubix

- Built predictive maintenance models using Random Forest algorithm, reducing equipment downtime by 25% and minimizing operational costs
- Developed customer segmentation system using K-Means clustering, enabling targeted marketing strategies and improving campaign effectiveness
- Created lead scoring models with 85% accuracy, increasing sales team efficiency by 20% through improved prospect prioritization
- Implemented movie recommendation system using collaborative filtering techniques, analyzing user rating patterns to deliver personalized content suggestions

- Designed interactive Tableau dashboards that transformed complex datasets into actionable business insights for stakeholders

TECHNICAL SKILLS

Languages: Python, SQL, R, C

Databases: SQL Server, Spark

ML/AI: Random Forest, K-Means, Collaborative Filtering, Multi-Agent Systems

Visualization: Tableau, PowerBI, Matplotlib, Seaborn

Frameworks: Flask, NumPy, Pandas, Scikit-learn

Big Data: Hadoop, Spark

KEY PROJECTS

Pustakam - AI Book Writer

Built AI-powered book generation engine that creates structured, context-aware books on any topic. Features sequential generation with memory retention and supports multiple AI models for privacy-focused, local-first operation.

AI-Tutor

Developed personalized AI tutoring platform using Google's Gemma model with multiple teaching personas, context-aware quiz generation, and interactive learning flowcharts.

Web Traffic Analysis

Performed comprehensive web traffic analysis for Zoompare using Python and Google Analytics, implementing A/B testing frameworks to identify conversion bottlenecks.

Bias & Fairness Checker

Created AI tool to detect potential biases in text and suggest inclusive language alternatives, advancing ethical AI development practices.

CERTIFICATIONS

• AWS Cloud Technical Essentials (Dec 2024)

• Certified Data Scientist - IABAC (Sep 2023)

• Foundations: Data, Data, Everywhere - Google (Apr 2024)

• Data Science Foundation - IABAC (Aug 2023)

• Technical Support Fundamentals - Google (Dec 2023)

• Certified Data Scientist - DataMites™ (Apr 2023)