Atharva Shripad Kale

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Education

MIT World Peace University	August 2022 - May 2024
Master of Science (M.S.), Computer Science	*CGPA:8.14*
Ramnarain Ruia Autonomous College	June 2018 - May 2021
Bachelors of Computer Science (BSc CS)	*CGPA:7.33*

Skills

Core Skills: Python, Generative AI (GenAI), Agentic AI, LLMs (OpenAI, LLaMA, Mistral), RAG Pipelines, Vector Databases (Pinecone, FAISS), LangChain, LangGraph, CrewAI

Frameworks & Libraries: FastAPI, Flask, Pandas, NumPy, Celery, Hugging Face, Boto3, REST APIs, PyTorch (basic)

Databases & Search: MongoDB, PostgreSQL, Redis, DocumentDB, MongoDB Atlas, Elasticsearch

Cloud & DevOps: AWS (EC2, S3, Lambda, RDS, DynamoDB), Docker, Kubernetes, Terraform, GitHub Actions, CI/CD Pipelines

Collaboration & Tools: Git, Jira, Confluence, Notion, Agile/Scrum

Experience

Senior Backend & AI Engineer — September 2024 – Present
Anervea Data Labs — *Pune, Maharashtra*

- Leading backend development of AlfaKinetic, an AI-driven Competitive Intelligence (CI) platform combining GenAI, Agentic AI, and LLM-powered insights to help enterprises track competitors and make faster strategic decisions.
- Designed and launched an intelligent AI bot using VoyageAI, Vector Search, and MongoDB, delivering contextual, real-time insights that reduced analyst research time by over 40%.
- Architected fault-tolerant ETL pipelines and Python microservices to automate data ingestion, change detection, and semantic matching, enabling a real-time alerting system for decision-makers.
- Implemented a dynamic prompting architecutre across Perplexity and Gemini API according to client reuqirements.
- Developed high-performance REST APIs for dynamic data ingestion, cutting latency from 7s to ¡100ms, which improved user experience and supported rapid product scale-up.
- Automated large-scale data extraction using BeautifulSoup, Selenium, Playwright, and Celery, reducing manual research effort and boosting system throughput for global coverage.
- Built RAG pipelines with OpenAI and LLaMA, transforming structured and semi-structured data into actionable business insights that enhanced client decision-making.
- Mentored junior engineers and conducted code reviews, fostering collaboration, product-focused problem solving, and high-quality deliverables aligned with business goals.

Python Full Stack Developer Intern — August 2024 - September 2024
Netra Labs — *Pune, Maharashtra*

- Reduced front-end load times by 25% using modern JavaScript frameworks such as NextJS and ReactQuery, improving usability and engagement by 15% in data analytics applications.

Projects

Resume Screening and Similarity Analysis — Aug 2023 - Dec 2023
Contribution: ML Model Building, Documentation

- Developed a supervised learning algorithm using NLP and word cloud analysis for resume screening, achieving 94% testing accuracy to support data-driven screening processes.
- Built and fine-tuned machine learning models with Python and TensorFlow, increasing prediction accuracy by 15% to improve talent assessment workflows.

Sentiment Analysis of Amazon Reviews — Feb 2023 - Apr 2023
Contribution: Data Warehousing, Google BigQuery

- Built an NLP-based sentiment analysis model using Google BigQuery for data warehousing, achieving 92.22% accuracy. Validated review authenticity and provided actionable insights into consumer behavior for client recommendations.

Certifications

AWS Machine Learning Foundations	May 2024 - June 2024
Amazon Web Services Certification & Training	
Professional Certificate in Cloud Native technologies(Kubernetes and Docker)	Jan 2024 - Feb 2024
The Linux Foundation	