Yuvraj
Senior Senior AI/ML Engineer

SUMMARY

Senior AI/ML Engineer with over 6 years of experience, specializes in LLM pipelines and generative AI. Demonstrates strength in designing high-performance machine learning algorithms and implementing scalable AI solutions. Proficient in FastAPI, AsyncIO, and Python, with deep knowledge of Pandas, NumPy, and AI/ML technologies like TensorFlow and LangChain. Has successfully deployed complex ETL pipelines and cloud infrastructure, ensuring robust data processing and delivery. Holds advanced certifications and a proven track record in AI project delivery, consistently improving operational efficiencies and business intelligence.

TECHNICAL SKILLS

Main Technical Skills	Python (6 yr.), PandasAI, NumPy
Programming Languages	Python (6 yr.)
Wordpress Ecosystem	ACF (Advanced Custom Fields)
AI & Machine Learning	CNN, NLP, NumPy, PandasAI, RAG
Python Libraries and Tools	NumPy
Data Analysis and Visualization Technologies	Business Analysis, PandasAI, Power BI, Tableau
Databases & Management Systems / ORM	Elasticsearch, MongoDB, PostgreSQL, Snowflake, Sphinx
UI Frameworks, Libraries, and Browsers	Semantic UI
Cloud Platforms, Services & Computing	AWS, Azure
Deployment, CI/CD & Administration	CD DevOps pipelines
Third Party Tools / IDEs / SDK / Services	Excel
Other Technical Skills	AutoGen

WORK EXPERIENCE

Senior AI/ML Engineer, Kavia AI Platform

Summary: Engineered comprehensive AI-powered development platform streamlining the entire software product lifecycle.
Responsibilities: Architected workflow management integrating LLM-powered code generation, inspection, and planning.
Technologies: FastAPI, LangChain, AI-powered development tools

Senior AI/ML Engineer, OCR CRM Solution

Summary: Developed robust OCR system for automated classification and extraction across various document types.
Responsibilities: Leveraged CNNs for high-throughput processing achieving high accuracy and reducing manual data entry effort.
Technologies: CNNs, FastAPI, OCR technologies

Senior AI/ML Engineer, Kora AI Agent

Summary: Designed an intelligent AI agent platform for autonomous multi-step reasoning.
Responsibilities: Implemented RAG architecture and FastAPI backend with AsyncIO for concurrent processing, improving operational efficiency.
Technologies: LangChain, RAG, FastAPI, AsyncIO

Senior AI/ML Engineer, T2D2 Structural Damage Detection

Summary: Engineered a computer vision platform for detecting structural damage on building facades.
Responsibilities: Processed imagery with geo-localisation algorithms, reducing inspection review time significantly through automated detection.
Technologies: CNNs, NVIDIA GPUs, geo-localisation algorithms

Senior AI/ML Engineer, Toothfit Dental Diagnostics

Summary: Built an AI-enabled dental platform for treatment monitoring and clinic diagnostics.
Responsibilities: Developed computer vision models for automated anomaly detection and deployed scalable cloud infrastructure.
Technologies: Computer vision, AWS, healthcare compliance technologies

Senior AI/ML Engineer, Sales Forecasting Platform

Summary: Implemented advanced statistical models for multi-horizon trend forecasting.
Responsibilities: Designed ETL processes with Pandas and NumPy to process data, improving forecasting accuracy through feature engineering.
Technologies: R, Python, Pandas, NumPy

Senior AI/ML Engineer, Underwriter Stock Research

Summary: Developed a fintech platform for transforming financial data into actionable insights.
Responsibilities: Implemented NLP sentiment analysis and created an AI-powered chatbot for conversational stock research.
Technologies: NLP, LLMs, sentiment analysis tools

Senior AI/ML Engineer, RPG Dynamic Pricing

Summary: Engineered an intelligent revenue management system with AI-driven pricing recommendation engine.
Responsibilities: Built a system using advanced vector search and semantic similarity algorithms, delivering revenue increase for hoteliers.
Technologies: Python Django, FastAPI, vector search algorithms, semantic similarity algorithms

Education

- **Stanford Machine Learning**
  Advanced ML certification from Stanford University

CERTIFICATION

- **IBM Data Science**
  Professional data science specialisation
- **RedHat System Administrator**
  Enterprise Linux system administration
- **CompTIA IT Fundamental**
  Core IT infrastructure certification