

# Yuvraj

## 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

<b>Main Technical Skills</b>	Python (6 yr.), PandasAI, NumPy
<b>Programming Languages</b>	Python (6 yr.)
<b>.NET Platform</b>	Azure
<b>AI &amp; Machine Learning</b>	CNN, NLP, NumPy, PandasAI, RAG
<b>Python Libraries and Tools</b>	NumPy
<b>UI Frameworks, Libraries, and Browsers</b>	Semantic UI
<b>Data Analysis and Visualization Technologies</b>	Business Analysis, PandasAI, Power BI, Tableau
<b>Databases &amp; Management Systems / ORM</b>	MongoDB, PostgreSQL, Snowflake, Sphinx
<b>Cloud Platforms, Services &amp; Computing</b>	AWS, Azure
<b>Deployment, CI/CD &amp; Administration</b>	CD DevOps pipelines
<b>Third Party Tools / IDEs / SDK / Services</b>	Excel



**Other Technical Skills**

ACF, AutoGen, Elasticsearch



## 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

