

# Eswar Sai Korrapati

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## PROFESSIONAL SUMMARY

AI/ML Engineer with more than three years of experience building production-ready machine learning and agentic AI systems. Skilled in designing scalable pipelines on AWS with SageMaker, MLflow, and Spark. Strong background in API design, automation, and MLOps practices that keep workflows reproducible and reliable. Experienced in model explainability with SHAP and LIME and in tuning models for fast, real-time predictions in production.

## EXPERIENCE

<b>Software Engineer – AI</b> <i>eSentire</i>	Oct 2025 – Present Pleasanton, CA
<ul style="list-style-type: none"><li>Built a supervisor-based agent workflow that generates structured JSON for dynamic security dashboards.</li><li>Designed JSON output with data endpoints, UI components, and layout details for dashboard rendering.</li><li>Used RAG to pull schema details and UI component metadata for each client.</li><li>Implemented strict prompt-engineering rules to enforce structure and keep agent outputs stable.</li><li>Deployed workflows on AWS Lambda and monitored behavior through CloudWatch.</li><li>Worked with platform teams to maintain clean deployments and dashboard accuracy.</li></ul>	
<b>Software Engineer – AI</b> <i>Comcast</i>	Aug 2024 – Sept 2025 San Jose, CA
<ul style="list-style-type: none"><li>Built agentic AI workflows with LangChain and LangGraph using Claude Sonnet 4.</li><li>Added persistent state to multi-agent flows, reducing repeated interactions by over 30%.</li><li>Created supervisor-worker flows that improved automated response accuracy and reduced escalations.</li><li>Integrated tools through MCP so agents could run lookups and troubleshooting tasks.</li><li>Deployed workflows on AWS Lambda, monitored through CloudWatch, and reduced rollout time and cost.</li><li>Worked with Agile teams to streamline development cycles and CI/CD releases.</li></ul>	
<b>Software Engineer</b> <i>Dentsu</i>	May 2020 – Jul 2022 Hyderabad, India
<ul style="list-style-type: none"><li>Built Flask APIs supporting marketing analytics and improving data processing speed.</li><li>Developed XGBoost models for ad-campaign forecasting with more stable and accurate predictions.</li><li>Used PySpark for data cleaning, joins, and feature preparation across large datasets.</li><li>Versioned data and models with DVC to keep experiments consistent.</li><li>Built Airflow pipelines for ETL and retraining, reducing manual restarts and failures.</li><li>Worked with Agile teams to deploy SageMaker endpoints and Docker-based EC2 services.</li></ul>	

## EDUCATION

<b>Montclair State University</b> <i>Master's in Computer Science, GPA: 3.65</i>	Montclair, NJ May 2024
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## PROJECTS

- RAG-based PDF Summarizer** | [Link](#)
- Next Word Prediction with BERT Transformer** | [Link](#)
- Machine Transliteration** | [Link](#)
- AI Meeting Preparation Agent** | [Link](#)

## TECHNICAL SKILLS

- Programming Languages:** Python, C++, SQL, JavaScript
- AI/ML & NLP:** TensorFlow, PyTorch, Scikit-learn, Keras, Transformers, Hugging Face, LangChain, LangGraph, n8n
- MLOps & Deployment:** MLflow, SageMaker, DVC, Airflow, Docker, Kubernetes, CI/CD, Jenkins
- Explainability & Evaluation:** SHAP, LIME, AUC, Precision, Recall, F1 Score, Confusion Matrix
- Cloud & DevOps:** AWS (S3, EC2, Lambda, SageMaker, CloudWatch, Bedrock), GitHub Actions
- Data & Processing:** Apache Spark, Pandas, NumPy, MongoDB, MySQL, Tableau
- LLMs & APIs:** OpenAI API, Prompt Engineering, FastAPI, REST APIs, RAG, MCP
- Tools & Collaboration:** Git, Jupyter, Streamlit, Agile, IntelliJ, VS Code, Cursor
- Core CS:** Data Structures and Algorithms