Gundelly Siddartha Yadav

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Summary

Full-stack developer with experience in AI/ML, LLM integration, and cloud-based application deployment. Proficient in Python, Java, C, and OS fundamentals with a strong academic background in AI and Data Science.

Skills & Certifications

- **Languages:** Python, SQL, Java
- **AI/ML Tools:** Hugging Face, GPT-2, Weaviate, Pinecone, Granger Causality, OpenAI Whisper
- **Frameworks:** LangChain, Transformers, Django, TensorFlow, Flask, React
- **Developer Tools:** Azure OpenAI, VS Code, PyCharm, IntelliJ, Eclipse, Git
- **Cloud Ops:** Azure (OpenAI), Docker, REST APIs, AWS Bedrock
- **Libraries:** TensorFlow, NumPy, Matplotlib
- **Certifications:** AWS Certified Cloud Practitioner (2025), AWS Certified AI Practitioner (2025), Microsoft Certified: Azure AI Fundamentals (2025), Azure Fundamentals (2025), Oracle Cloud Infrastructure Foundations (2024), Certified Advanced Automation Professional (2024)

Education

- **KL University Hyderabad** — Aug. 2022 – May 2026
  B.Tech in Artificial Intelligence and Data Sciences (GPA: 9.38) — *Hyderabad, India*
- **Sri Chaitanya Junior College** — Aug. 2020 – May 2022
  Board of Intermediate Education (91.9%) — *Hyderabad, India*
- **Sri Chaitanya School SP Nagar** — Aug. 2019 – June 2020
  Board of Secondary Education (GPA: 10.0) — *Hyderabad, India*

Work Experience

- **AI and Payments Intern** — June 2025 – Present
  PiResearch Labs
  - DocuVerifi Project: Architected and developed DocuVerifi, an automated document verification system for merchant onboarding, validating KYC documents, performing integrity checks, and supporting onboarding decision workflows. Implemented backend services, database models, and validation pipelines to ensure secure, compliant document handling.
  - Database Design: Designed and implemented the complete database schema serving as the backbone for company-wide operations, ensuring scalability, reliability, and compliance with industry standards.
  - Backend Development: Built and optimized REST API endpoints to support core application workflows and improve system performance.
  - Automation: Developed scripts and workflows to automate reconciliation tasks, automatic merchant background check reducing manual effort and increasing operational efficiency.
- **Contractor - Agentic AI** — Jan. 2025 – Feb. 2025
  Hexagon R&D India
  - Conceptualized and developed an Agentic AI prototype with autonomous root cause analysis for databases, improving HxGN NetWorks issue resolution speed by 25% and cutting average resolution time by 40%.
  - Designed AI agents using Azure OpenAI models with MagenticOne to autonomously analyze database and service logs, reducing resolution time by 40%; benchmarked against state-of-the-art Agentic frameworks like AutoGen, and CrewAI.

- Conducted extensive experimentation with REST APIs and Ollama models, improving system scalability by 20% and reducing cloud computing costs compared to generic GPT-based solutions.

- **AI Intern** June 2024 – July 2024
  Arthink.ai
  - Developed and deployed regression models on NASA CMAPSS dataset for predicting engine Remaining Useful Life (RUL), achieving 86.24% accuracy using TensorFlow-based architectures.
  - Engineered a full-stack Flask application integrating predictive ML models, clustering techniques, Granger Causality for anomaly detection, and Langchain-based LLM agents, resulting in a production-ready AI monitoring tool.
  - Fine-tuned GPT-2 using Hugging Face Transformers and LoRA on domain-specific text data, boosting downstream NLP task performance by 30% compared to baseline pre-trained models.

Projects

- **RAG-based Automated Support System** March 2025 – July 2025
  n8n, OpenAI, LangChain
  - Built an intelligent customer support system using n8n for workflow automation and Agentic AI agents for diagnosing and resolving user queries, enabling scalable issue triaging with minimal human intervention.
  - Integrated OpenAI-powered AI agents to analyze customer issues, retrieve past solutions, and automate resolution, reducing human intervention by 40%.
  - Implemented a self-learning knowledge base with a vector database Pinecone, improving response accuracy over time. Designed proactive issue detection workflows that monitor system logs and trigger preventive actions. Automated report generation and support ticket classification, streamlining support workflows for faster resolution

- **Telecom Customer Churn Prediction** Jan. 2025 – Mar. 2025
  Python, Scikit-learn, EDA
  - Conducted end-to-end customer churn analysis using a telecom dataset, applying feature engineering and exploratory data analysis (EDA) to uncover churn patterns.
  - Built and evaluated multiple machine learning models including Logistic Regression, Random Forest, and XGBoost, achieving 81.2% accuracy in identifying potential churn customers

- **Predictive Maintenance Application** June 2024 – July 2024
  Python, TensorFlow, Flask
  - Designed and deployed a Flask-based predictive maintenance app utilizing deep learning models, achieving 86.24% RUL prediction accuracy on industrial time-series datasets.
  - Solved RUL prediction, clustering, speech recognition (OpenAI Whisper API), and anomaly detection (Granger Causality), achieving an RMSE of 44.08 and a Silhouette Score of 0.563.

Publications

- **Enhancing Remaining Useful Life Prediction** June 2024 – Dec. 2024
  Springer CCIS Series
  - Worked under the supervision of Ravi Katukam (Ravi.k@arthink.ai)
  - Co-authored a research paper titled "Enhancing Remaining Useful Life Prediction: A Comparative Study of Classical Machine Learning and Generative AI".
  - Presented the work at ThinkAI'24 Conference affiliated with Springer.
  - The Paper is set to be published in Springer CCIS Series.