RIDDHIK SANTOSH TILAWAT

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Education

San Jose State University — Aug. 2023 – May 2025
Master of Science in Computer Science — San Jose, CA
Courses: Natural Language Processing, Artificial Intelligence, Distributed Computing, Design and Analysis of Algorithms

MIT World Peace University — Aug. 2018 – Jun. 2021
Bachelor of Technology in Computer Science and Engineering — Pune, India
Courses: AI, ML, Data Structures, Operating Systems, Databases, Computer networks, Object Oriented Programming

Technical Skills

Languages: Python, C/C++, SQL, Java, JavaScript, HTML/CSS
Libraries: PyTorch, Huggingface, Scikit-learn, TensorFlow, Keras
Frameworks: RASA, Flask, Hadoop, FastAPI, React.js, Angular.js, Node.js
Technologies: Generative AI, ML, CV, Neural networks, Cloud Computing, ElasticSearch, Airflow, Kafka, Jenkins, Spark
Skills: Data Scraping, Data Preprocessing, Feature Engineering, Model Evaluation, Git, NoSQL, Agile, Distributed Systems, JUnit, CI/CD, Docker, Kubernetes, Full Stack

Experience

Fetch.ai — Jun. 2024 – Aug. 2024
AI Engineer Intern — San Francisco, CA
- Conceptualized and developed Auto-Mate, a cutting-edge AI-powered suite of agents aimed at automating corporate tasks, boosting cross-team communication and increasing project management efficiency by 30%.
- Engineered a Meeting Transcription Agent with 95% transcription accuracy, leveraging an AI agent-based framework that allowed seamless customization and scalability, catering to unique business needs.
- Designed and integrated multiple AI agents (e.g., Slack, Jira Ticketing, GitHub Issues) into a unified, chainable workflow, enabling complex automations that outperformed solutions like Microsoft 365 in flexibility and capabilities.
- Implemented agent chaining functionality that enabled sophisticated multi-step automations, reducing manual interventions by 40 hours per week across corporate processes, driving operational efficiency.

Volkswagen Group — Aug. 2021 – Jul. 2023
Software Engineer — Pune, India
- Led in-house Large Language Model development, scraping and processing data with BeautifulSoup & Spacy NER, fine-tuning GPT2/GPT Neo for 60% faster query responses and handling a 50 million record dataset securely.
- Streamlined invoice scanning by applying machine learning and OCR, leveraging cloud technologies, resulting in a remarkable 70% reduction in processing time compared to manual methods.
- Employed LLM to design a chat interface facilitating IT-related queries, minimizing IT support ticket resolution time and enhancing user satisfaction through swift and accurate responses.
- Automated processes with a Python and Selenium script, mitigating reliance on external automation software, realized a cost-saving of 90%, eliminated need for third-party automation tools, and increased efficiency in repetitive tasks.
- Leveraged Spacy's NER and RASA to develop chatbots, establishing a SaaS platform 'Bot Factory' for clients to effortlessly craft customized chatbots without coding, enhancing customer engagement.

Sisai Technologies — Jul. 2020 – Sep. 2020
Machine Learning Intern — Pune, India
- Developed Predictive Maintenance model for industrial machinery utilizing NASA-bearing vibration datasets, attaining 95% accuracy, resulting in a 20% reduction in unexpected failures and saving $1.5 million annually.
- Applied FFT and LSTM algorithms for predicting maintenance needs, contributing to a 25% decrease in unplanned downtime and a 30% increase in equipment efficiency, leading to a 15% production output improvement.

Projects

Friends GPT | *LLM, GPT, Spacy NER* — Jan. 2024 – Feb. 2024
- Orchestrated an engaging text-based RPG set in the "FRIENDS" universe, captivating players with a unique story line and interactive elements.
- Leveraged Spacy NER, GPT-2 Narrator, GPT-Neo dialogues, and T5 fine-tuning, elevating player immersion.

AI Based First Responder | *LLAMA, AI, REST, React* — Mar. 2024 — Mar. 2024
- Developed a web application enabling users to upload emergency photos for backend model analysis, extracting parameters like severity, deployment units, and user location, aimed at minimizing 911 response time.
- Used vision model and llama models to suggest do's and dont's to the user.

Amrit - Your Help from Addiction | *LLM, ChatGPT API, Gemini, React, Python* — Jan. 2024 – Feb. 2024
- Built an app offering personalized addiction recovery tasks using LLM and ChatGPT API, tailored to users' specified addictions.
- Integrated Gemini API for image verification of completed tasks, rewarding users with redeemable points for successful completion.

Activities

Hackathons: Winner at LA Hacks, UCLA and SF Hacks, SFSU, Mentor & Judge at MITHacks, Massachusetts Institute of Technology, **Adobe:** Student Ambassador, **San Jose State:** Marketing Student Assistant, **Chegg:** Subject Expert-Computer Science, **MIT- WPU Summit:** Lead for Marketing Team, **E-Cell IIT Bombay:** Campus Ambassador, **InternCraft:** Campus Ambassador

Publications

- Brainwave Controlled Wheelchair- Vol-07, Issue-02. (IJREAM)
- Applications of computer vision in Agriculture- 2021. (IJEAST)

Certifications

IBM Data Science Professional Certificate, DeepLearning.AI Tensorflow Developer, Certified Google Cloud Engineer