T SAI PRASANTH REDDY

Software Engineer

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SUMMARY

Final-year B.E. student in Artificial Intelligence & Machine Learning with strong skills in Full Stack Development and AI-based solutions. Passionate about integrating web technologies with intelligent systems to solve real-world challenges. Eager to contribute as a Full Stack / AI Intern by applying academic knowledge to impactful, scalable projects.

SKILLS

❖ **Technical Skills**

- **Programming Languages:** HTML, CSS, JavaScript, TypeScript, Python
- **Frameworks & Libraries:** React.js, Tailwind CSS, Express.js, Pandas, NumPy, Matplotlib
- **Databases:** MySQL, MongoDB
- **Artificial Intelligence & Machine Learning:** Machine Learning, Deep Learning, Natural Language Processing (NLP), Generative AI, Reinforcement Learning, Human-Centric AI
- **Data Analysis & Visualization:** Tableau, Power BI, MS Excel
- **Tools & Platforms:** Jupyter Notebook, Google Colab, GitHub, Visual Studio Code

❖ **Core Competencies**

- Team Collaboration & Leadership, Effective Communication, Decision Making & Problem Solving

PROJECTS

- **AI Web Scraping Using LLM** **Jan 2024 – feb 2024**
  - **Technologies used**: Python, BeautifulSoup, Selenium, OpenAI, Scrapy, LangChain for LLM, Vector
  - Developed an AI-driven web scraping solution leveraging LLMs to extract, understand, and summarize
  - unstructured data.
  - Implemented NLP and semantic search with LangChain and vector databases for context-aware.

- **Divya Mandir – Temple Management & Devotee Engagement Platform** ***Dec 2024 – Jan 2025***
  - **Technologies used:** MongoDB, Express.js, React.js, Node.js, Tailwind CSS, JWT, Socket.io, Razorpay API
  - Built a full-stack temple web app for event publishing, rituals, schedules, and temple history with real-time updates and notifications.
  - Integrated donations, contact modules and multilingual support to enhance temple–devotee interaction.

- **Augmented Reality Navigation For The Visually Impaired** **Aug 2025 – Sept 2025**
  - **Technologies used**: Python, OpenCV, TensorFlow, Google Maps API, Text-to-Speech (TTS)
  - Built an AI-powered AR navigation system that detects obstacles and provides real-time audio guidance for visually impaired users.
  - Integrated object recognition, GPS-based pathfinding, and text-to-speech for safe, efficient mobility.

- **Crash Course Attendance Data Analytics** **Mar 2025**

  Technologies / Tools: Python, Pandas, Matplotlib , GoogleColab
  - **Analyzed 4,600+ sign-up records** using Python/Pandas, executing an end-to-end pipeline for data cleaning and standardization.
  - Engineered a **'Unique ID' key** to de-duplicate entries, establishing a single verified master student list and resolving data integrity issues.
  - Generated **5-Day Attendance Reports** and performed EDA, deriving key demographic insights on colleges and geographic participation.

ACHIEVEMENTS & CERTIFICATIONS

- **JavaScript Certification,** KnowledgeGate 2024(knowledgegate.ai/learn/certificate/11714432-219977)
- **React.js Certification,** KnowledgeGate 2024(learn.knowledgegate.al/learn/certificate/11714432-219978)
- **Crash Course On Data Analysis with Python,** Innomatics Research Labs 2025
- **Applied Generative AI Certification,** Infosys 2025 (https://verify.onwingspan.com)

EDUCATION

- **Vemana Institute of Technology** / *B.E in AI & ML* *(CGPA: 7.6)* ***November 2023 – June 2026***
- **PVKK Polytechnic Collage** / *Diploma in ECE* *(Percentage: 80%)* ***June 2020 – March 2023***
- **UKRS English High School** / *10th* *(Percentage: 97%)* ***June 2008 – March 2020***