Pavan Sugreev Kotapati

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SUMMARY

Computer Science graduate with expertise in development, real-time systems, and machine learning, reinforced by hands-on experience from internships and personal projects. I am eager to join a dynamic team where I can apply my technical skills in development and various technologies to solve real-world challenges while continuously growing alongside industry professionals who share my commitment to innovation and excellence.

EXPERIENCE

Reliance Jio Infocomm Pvt. Ltd.   Bangalore, India
Jio Smart Living Intern   May 2024 - July 2024

- Developed an internal dashboard to control smart devices within a network, minimizing data latency from 5s to under 1.2s and enhancing dashboard loading times by 70% for real-time system monitoring.
- Designed a complete stack architecture using React.js and Flask to facilitate real-time telemetry through MQTT and API connectivity endpoints following Agile methodologies for smooth data exchange.
- Improved log analysis precision by 85% through automated system logs parsing using Shell scripting and Python deployed on Linux servers, allowing real-time diagnostics and error tracking efficiency.

PROJECTS

Document Classifier
Machine Learning | Final Year Project   GitHub

- Build a self-supervised document classifier using BERT embedding coupled with hierarchical clustering by BERTopic, with an accuracy of 92% in labeling.
- Designed a semantic topic modelling pipeline for automated feature extraction and real-time inference APIs to serve legal and financial documents.

Finance Tracker
Personal Finance Management Platform | Full-Stack Project   GitHub

- Built full-stack finance tracker platform using React.js with Redux, Node.js with Express, and MongoDB aggregation pipelines, implementing JWT and OAuth 2.0 for secure session handling
- Designed real-time dashboards with dynamic chart rendering and filter logic, enabling seamless exploration of categorized financial data

AI ChatBot
AI/ML Project | Personal Project   GitHub

- Developed intelligent conversational AI system using Gemini API 1.5 with integrated grammar correction and English language enhancement, supporting users with optimized response times under 80ms
- Engineered a pipeline with contextually accurate writing assistance and grammar correction capabilities, delivering improved user productivity by 60% through intelligent language processing

WeConnect
Personal Project   GitHub

- Built real-time social platform using React.js, Firebase Firestore, and WebSockets with 91.5% uptime for users
- Implemented RBAC-based auth microservice with Firebase Auth, deployed on GCP with containerized architecture, increasing user engagement by 45%

EDUCATION

Gandhi Institute of Technology and Management   Visakhapatnam, India
Bachelors of Technology in Computer Science Engineering   July 2021 - May 2025

TECHNICAL SKILLS

Programming Languages:	Python, Java, JavaScript, SQL, Shell Scripting
Machine Learning & AI:	NumPy, Pandas, Matplotlib, Sentence Transformers, NLP
Web Development & Frameworks:	React.js, Node.js, Flask, Streamlit, HTML, CSS
Cloud & Database Technologies:	Google Cloud Platform, Firebase, MongoDB, EC2, S3, IAM
Development Tools & APIs:	Git, Linux CLI, RESTful APIs, Postman, OAuth 2.0, MQTT, WebSockets
Methodologies & Soft Skills:	Agile, Documentation, SDLC, Problem Solving