

PROFILE SUMMARY

A highly motivated and adaptable AI/ML enthusiast with hands-on experience in full-stack development and cloud-based solutions. Skilled in React JS, Spring Boot, and MySQL, capable of designing and maintaining scalable, three-tier architectures with RESTful APIs. Gained practical expertise through an AI/ML internship, working on real-time video surveillance and facial recognition systems, leveraging FastAPI, Python, Triton Inference Server, and LLM technologies. Experienced in deploying microservices on AWS, automating pipelines with Lambda, S3, and Kinesis Video Streams, and delivering solutions for government surveillance projects. Passionate about combining AI, cloud, and full-stack development to create impactful, real-world applications.

WORK EXPERIENCE

AI/ML Developer Intern

Parabola9

12/2024 – Present | Nuzvid

Working in a microservices-based AI/ML backend team focused on cloud deployments, model inference pipelines, and real-time analytics for video intelligence solutions.

- Built and deployed FastAPI-based microservices for video intelligence, handling preprocessing, ML inference, and real-time feature extraction.
- Automated CCTV video ingestion pipelines using AWS Lambda, S3, and Kinesis Video Streams for scalable streaming workflows.
- Containerized inference services and deployed them on AWS EC2 with auto-scaling support.
- Implemented YOLO-based person detection integrated with BoT-SORT tracking to ensure consistent identity tracking across frames.
- Integrated face recognition models (Buffalo) for embedding generation and identity matching, achieving high accuracy in live video feeds.
- Worked with Triton Inference Server for running high-speed model inference pipelines.
- Designed and deployed modules for a government surveillance product, including hands-on evaluations of CCTV camera placements in government warehouses and on-site demonstrations in government offices.
- Collaborated with stakeholders to ensure compliance with operational and security requirements, providing actionable insights for real-world government environments.

PROJECTS

Project: ParaBot (AI Chat + File Summarizer) | FastAPI, React, OCR, Gemini | [GitHub](#)

Implemented an AI assistant that processes text, images, PDFs, and website content with summarization and Q&A capabilities.

Project: Stress Prediction Based on Sleeping Patterns | Python, ML, Streamlit | [GitHub](#)

Developed a machine learning model that predicts stress levels using sleep data and provides wellness suggestions.

Project: ScreenSaga (OTT Platform) | React JS, Spring RestAP, MySQL | [GitHub](#) (frontend) | [GitHub](#) (Backend)

Built a full-stack OTT platform allowing users to browse movies, web series, trailers, and manage personalized watchlists. Implemented user authentication, email verification, password reset, and account deletion for secure account management. Enabled season/episode selection for web series, a "Continue Watching" section, and a feedback system for engagement. Backend built with Spring Boot REST APIs and MySQL, integrating JSON APIs and SMTP for email confirmations.

Project: Company Vault - Filter, Explore, and Locate Companies | React, Material-UI, JSON Server, Vercel | [GitHub](#)
Developed a responsive web application to discover companies with advanced filtering (industry, location, rating, revenue, employee count), interactive maps with directions, and modals showing company reviews. Implemented a side drawer for filters, real-time map updates, and fast, responsive UI for desktop and mobile users.

CERTIFICATION

- Successful completion certificate on [Java Development](#) Internship.
 - Certification on 7-Days Bootcamp on Basic Web-Dev With [Bootstrap](#).
 - Certification on completion of [JavaScript and React JS](#) bootcamp.
 - Certification on completion on [Resume, Networking and Interview Skills](#).
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CO-CURRICULAR

- Achieved NCC '[B' Certificate](#) and '[C' Certificate](#).
- [Certification on completion on Resume, Networking and Interview Skills](#).
- [Certificate of Merit for All India Essay Writing Event 2018](#).
- [Certificate of Participation and Certificate of Appreciation for National Level Techno Management Fest](#)
- [Certificate of Participation for All India Inter-University Yoga Championship \(2019-2020\)](#).

CONTACT

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 - 🌐 [LinkedIn](#)
 - 🌐 [Portfolio UI](#)
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EDUCATION

B.Tech - Computer Science Engineering (CSE)
RGUKT IIIT Nuzvid
2021 - 2025
CGPA: 9.0

Pre- University Course (PUC) - Intermediate
RGUKT IIIT Nuzvid
2019 - 2021
CGPA: 9.62

Secondary School - SSC
Government High School, Srikakulam
2018 - 2019
CGPA: 10

TECH STACK

- **Web Technologies and Libraries:** HTML, CSS, Bootstrap, React JS
 - **Programming:** Java, Python
 - **Query Languages/Database:** MySQL
 - **Frameworks:** Collections, Hibernate, Spring , Streamlit (Python)
 - **Machine Learning & AI:** Machine Learning,
 - **Models:** YOLO, Buffalo Insightface
 - **Testing:** Postman
 - **API:** Fast API, Spring REST API
 - **Cloud:** AWS
 - **Data Visualization:** Power BI
 - **Tools:** Netlify, Vercel, VS Code, Jupyter Notebook, Eclipse, PowerPoint
 - **Source Code Management:** GIT
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DECLARATION

I, POTNURU SRAVANKUMAR hereby declare that the above mentioned information is corrected up to my knowledge and belief; I bear the responsibility for the correctness of the above mentioned particulars.

Place: Nuzvid

p.sravan kumar