Chandru Thambidurai

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EDUCATION

- **Knowledge Institute of Technology**   CGPA : 7.9
  B.Tech in Artificial Intelligence and Data Science   *Oct 2021 – May 2025*

EXPERIENCE

- **JSW**   Salem, IND
  Software Developer   *July 2023 – Aug 2024*
  - **Automated Daily Production Planning**: Developed an **automated scheduling system** at **JSW Blooming Mill**, optimizing **production efficiency** and ensuring **on-time operations** through streamlined workflow processes.
  - **Resource Allocation Optimization**: Implemented data-driven solutions to enhance **resource utilization**, significantly improving **workflow efficiency** and reducing operational bottlenecks.

- **Punchbiz**   Salem, IND
  Data Scientist Intern   *Jan 2024 – Mar 2025*
  - **Smart Attendance System**: Designed and developed an **AI-powered attendance tracking system** using **Computer Vision** and **Deep Learning**, enhancing process **accuracy and automation efficiency**.
  - **Data Annotation and Model Training**: Performed high-quality **data annotation** for deep learning models and contributed to the **training of object detection models**, ensuring robust and accurate performance.

PROJECTS

- **OCR Web Application**   *GitHub Link*
  - Developed a **Django-based OCR Web Application** using **PydanticAI** to extract text from uploaded images, featuring secure **user authentication** with **email verification**, **password reset**, and **server-side image management**.
  - Integrated **Google Translate API** for **multilingual translation** and **TextBlob** for **spell checking**, delivering a **responsive front-end** using **HTML, CSS, and JavaScript** for a seamless user experience.

- **SEO Optimizer Platform**   *GitHub Link*
  - Built a **full-stack SEO platform** using **Spring Boot**, **FastAPI**, **React (Vite)**, and **Tailwind CSS** with **JWT authentication**, **HttpOnly cookies**, **Google OAuth2**, and **password reset/verification** flows.
  - Designed a **two-backend architecture** where the **Spring Boot authentication service** issues tokens verified by a **FastAPI AI service**, enabling secure **keyword analysis**, **SEO audits**, and **performance dashboards** deployed on **Render** and **Vercel**.

SKILLS

- **Languages**: Python, JavaScript, C, Java
- **Database**: MySQL, PostgreSQL
- **Frameworks**: Spring Boot, Django, FastAPI
- **Tools & Technologies**: Git, Postman, Grafana, Prometheus

AWARDS AND ACHIEVEMENTS

- **Winner – National Level AI/ML Hackathon**: Secured **1ˢᵗ place** at **Bannari Amman Institute of Technology** for developing an **AI-powered assistive navigation system** using **OpenCV** and voice guidance.
- **Appreciation Award – Best Consultant Project**: Honored at **Knowledge Institute of Technology** for developing a **production schedule automation system** for **JSW**.
- **Result Analysis and Visualization**: Built a **Python-based tool** using **Pandas**, **Matplotlib**, and **Seaborn** to analyze and visualize student performance data.