

## Venkata Pushpak Praneeth Anala

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Louisville, KY, USA

### Education

**Master of Science in Computer Science**, *The University of Louisville*

-May 2026

Specializing in advanced algorithms, machine learning, data structures, deep learning, AI, and cloud computing through hands-on projects and research. Ready to leverage technical skills and innovative problem-solving in a dynamic tech environment

**Bachelor of Technology in Computer Science & Engineering**, *PACE ITS*

-Jun 2022

### LANGUAGES AND TECHNOLOGIES

**Programming Languages:** Python, Java, C, JavaScript

**Frameworks:** FastAPI, Tornado, ReactJS

**Databases:** MongoDB, MYSQL

**Cloud:** \*AWS Developer Associate

**Development Tools:** Visual Studio Code, Eclipse, Jupyter Notebook

**Other Tools:** Git/GitHub, BitBucket, Swagger, ChatGPT, Copilot, Postman, LLMs

### PROFESSIONAL EXPERIENCE

**ADP (Automatic Data Processing) | Hyderabad | Member Technical**

- July 2022 – Aug 2024

### PROJECTS

**SBS E2E Implementation (Web Application) – ADP**

The project is an end-to-end implementation of a **Client Onboarding Process** designed to automate and streamline the onboarding of new clients. This solution reduces manual data entry, minimizes errors, and accelerates the client onboarding process by automating data extraction, validation, and seamless integration with other systems.

- Developed a **RESTful** microservices backend using **FastAPI**, handling **database schema** design, defining **API contracts** with **Swagger** and integrating **MongoDB** for efficient storage.
- Collaborated with cross-functional teams to align solutions with business requirements, participating in whiteboard sessions with stakeholders.
- Explored **Kafka** in a POC for potential real-time data streaming integration.
- Managed agile processes with **Jira** and **Confluence**, and monitored **CI/CD** pipelines via **Jenkins** and **Kubernetes** for automated testing and continuous delivery, and improved system quality through **debugging**, **code refactoring**, and database query enhancements.

**Doextract (Web Application) – ADP**

This is a real time tool for classification and extraction of documents such as SIT, SUI, and Payroll information etc., using intent-based models, automating data processing and improving accuracy.

- Developed an **OCR-based** project with a full-stack approach using **FastAPI**, **MongoDB**, **pandas**, and **ReactJS** for a scalable application.
- Migrated from **Tornado** to **FastAPI**, enhancing performance, while configuring **MongoDB** and implementing **Active Directory** for secure authentication.
- Designed UI/UX and reusable **ReactJS** components, using **pandas** for data processing and **PyMuPDF** for PDF content extraction.

**UNIQUEST (Web Application) – UOFL**

- Designed and developed UNIQUEST, a comprehensive web platform that helps students discover, compare, and select U.S. universities using **AI-driven** recommendations and **real-time** data.
- Developed key platform features: curated top-10 universities per state, full U.S. institution search, side-by-side comparison, favorites system, and an intelligent **dual-model AI chatbot** leveraging **Google Gemini** and **OpenAI GPT-4** to deliver tailored suggestions and instant, accurate answers.

**Awards – Gold Shining Star FY'24Q3 (ADP) and Gold Shining Star FY'23Q1 (ADP)**

- Awarded for delivering a complex end-to-end project that improved client onboarding efficiency by 30% and reduced onboarding time by 40%, while also exceeding performance expectations by resolving intricate production issues, managing multiple responsibilities, and driving process improvements that boosted operational efficiency by 25%.