

Abheeshta Vemuri

+1 (352) 709 9087 | a.vemuri@ufl.edu | [LinkedIn](#)

EDUCATION

University of Florida

Master of Science, Computer Science

Gainesville, Florida

January 2024 - December 2025

- Coursework: Advanced Data Structures, Programming Language Principles, Software Engineering
- GPA : 3.78/4.0 (Transferred from Bennett University on academic merit as an exchange scholar)

Bennett University

Bachelor of Technology, Computer Science - Data Science

Uttar Pradesh, India

August 2020 - May 2024

- Coursework: Design and Analysis of Algorithms, Operating Systems, Digital Design, Computer Networks
- GPA: 8.5/10

PROFESSIONAL EXPERIENCE

AI solutions Intern | Incepta Inc

July 2025 - Present

- Built scalable AI agents using OpenAI APIs, LangChain, and Snowflake to streamline insurance workflows and boost SLA compliance; reduced client resolution time by 35% with RAG-powered support chatbots.
- Collaborated cross-functionally with product, backend, and cloud teams to deploy customer-facing solutions on AWS, implementing unit tests and observability dashboards.

Graduate Research Assistant | University of Florida

December 2024 - Present

- Designed metadata pipelines for downstream ML and Power BI dashboards; integrated Elasticsearch and GraphQL to accelerate research data retrieval and reporting.
- Collaborated with researchers and analysts to align metadata strategy with digital-first initiatives, scaling to 350K+ records for university-wide insights.

Technology Analyst | Nasscom

August 2023 - December 2023

- Engineered scalable backend systems using Java 11, Spring Boot, and PostgreSQL to power real-time data sync across government skilling programs, training partners, and dashboards; integrated MongoDB and designed RESTful APIs for flexible data handling.
- Automated reporting workflows with scheduled jobs and scripts, reducing manual effort by 60% and improving system reliability; led API development and bug tracking using Jira in Agile sprints.

Programming Analyst | Cognizant

June 2023 - August 2023

- Maintained and optimized enterprise backend systems using Spring Boot, SQL, and REST APIs, ensuring high availability and support across multiple client accounts.
- Delivered production-ready features by refining technical requirements, resolving real-time integration issues, and implementing robust test coverage and documentation in Agile environments.

PROJECT EXPERIENCE

Scribble2App — Sketch-to-Code AI for Rapid Web App Prototyping ([Link](#))

- Tech Stack: Python, OpenCV, GPT-4 Vision, React.js, Tailwind CSS
- Built a multimodal AI solution that interprets hand-drawn UI wireframes (OpenCV + GPT-4 Vision) and converts them into deployable React + Tailwind CSS web apps, empowering product managers and designers to prototype interfaces without coding skills.

PDF Extract — AI-Powered Document Query and Summarization Tool ([Link](#))

- Tech Stack: Python, LangChain, OpenAI GPT-4, Pinecone, PDFMiner
- Created a document intelligence system using LangChain, OpenAI GPT-4 and Pinecone for chunked retrieval and semantic search; enabled users to query multi-page PDFs and receive context-aware summaries with citation tracing.

AI Email Reader — Smart Inbox Assistant for Customer Communication ([Link](#))

- Tech Stack: Python, OpenAI GPT-4, Gmail API, Flask, Prompt Engineering
- Designed a backend pipeline that automatically reads and classifies customer emails, summarizing queries and generating draft responses; integrated with the Gmail API to help support teams process inbound requests.

TECHNICAL SKILLS

Programming & Scripting: Python, JavaScript, TypeScript, SQL, Bash

AI & Machine Learning: OpenAI API (GPT-4, Vision), LangChain, Pinecone, Scikit-learn, TensorFlow, RAG

Web & App Development: React.js, Node.js, Express.js, HTML5, CSS3, Tailwind CSS, Supabase

Backend & API Systems: Spring Boot, RESTful APIs, FastAPI, Flask

Cloud & DevOps: Docker, Kubernetes, GitHub Actions, AWS, GCP, Postman

Databases & Data Engineering: SQL/NoSQL, Snowflake, JSON, Data Parsing, Document Chunking, Embeddings

Product & Collaboration Tools: Jira, Figma, Notion, Trello, Agile, SCRUM

Client-Facing Strengths: Customer Demos, Technical Documentation, Product Thinking, Empathy-Driven Support