

Venkata Sai Akash Arvapalli

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EDUCATION

Mahindra University

B.Tech Computer Science

Impulse College (State Board)

Expected Graduation: June 2026

Current GPA: 8.0/10.0

June 2022

Percentage: 95%

COURSEWORK

Courses: Object-Oriented Programming, Data Structures & Algorithms, Operating Systems, Computer Networks, Database Management Systems, Software Engineering, Design and Analysis of Algorithms, System Design, Machine Learning, Deep Neural Networks, Human Computer Interaction

Awards: First Place – Week 4 Mutual Program (Mahindra University): Awarded top rank for innovative solution in an entrepreneurship-based simulation program; First Place – Venture Vault by EIC (Mahindra University): Won a university-level startup pitch competition organized by the EIC.

SKILLS

Languages: Python, JavaScript, HTML5, CSS3, SQL, Java, C/C++

Frameworks & Libraries: React.js, Node.js, Express.js, Bootstrap, Tailwind CSS, Bootstrapping TensorFlow, PyTorch, scikit-learn, OpenCV, NumPy, pandas

Tools & Platforms: Git, GitHub, Figma, MongoDB, MySQL, Mongoose, EJS, PostgreSQL, Jupyter Notebook, Google Colab, REST APIs, AJAX, JSON, XML, Jira, JWT, Postman, VS Code, Vercel, Render, Netlify, CI/CD, Agile, Math-Lab, TestRigor

Soft Skills: Analytical thinking, adaptability, public speaking, problem-solving, experienced in delivering presentations and demos for academic and club initiatives.

Other Skills: ML Integration, Model Deployment (Flask/FastAPI), Data Preprocessing, JWT Authentication, NLP-powered Features, Data Visualization, User and System documentation, Proficient in MS Office Suite (Word, Excel, PowerPoint), Familiar with Agile workflows. (Basic knowledge of Docker, Kubernetes, Jenkins, PowerShell, Azure)

PROJECTS

UniEvent | *HTML, CSS, JavaScript, Node.js, Express, MongoDB, Muler*

May 2025

- Developed a full-stack event management web application for university communities, enabling users to create, manage, and discover campus events easily.
- Engineered system design and maintained comprehensive documentation—including API specs, diagrams, and user/system documentation for deployment and onboarding.
- Deployed the application on Render; [Link](#)

Voice Q&A Assistant | *Python, OpenAI API, Pyttsx3, SpeechRecognition, Tkinter*

Jun 2025

- Developed a desktop voice assistant that processes spoken questions using speech recognition and generates real-time spoken answers with `pyttsx3`.
- Designed an intuitive Tkinter GUI for seamless input/output interaction and enhanced user experience.
- Implemented prompt engineering and integrated OpenAI API to enable dynamic Q&A; source code available at [GitHub](#).

Motion Tracking & Rehab Web App | *Python, Flask, OpenCV, MediaPipe, HTML/CSS, JavaScript*

Jun 2025

- Created a web app that tracks hand movements using MediaPipe and OpenCV for real-time finger and wrist rehabilitation assistance, providing interactive feedback to support patient progress.
- Validated motion accuracy to guide therapy and improve exercise outcomes; source code available at [GitHub](#).

EXPERIENCE

Qubit Quantum Computing Club | *Design and Content Head*

Sept 2024 – Aug 2025

Led a design team of 4 to create visual materials for events, collaborating with organizers to ensure consistency.