

CHAKKA SATWIKA JAHNAVI

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Vinukonda, Andhra Pradesh - 522647, India






OBJECTIVE

To leverage my expertise in AI/ML algorithms, frontend development, and ethical AI frameworks to contribute meaningfully to IIT Hyderabad's research on Fairness in Machine Learning.

EDUCATION

- Narasaraopeta Engineering College** 2022 - 2026
Btech Computer Science
Narasaraopeta, India
 - AVG GPA: 9.69/10.0
- Krishnaveni Junior College** 2020 - 2022
Intermediate MPC Stream
Vinukonda, India
 - Grade: 97.7%
- Alpha High School** 2010 - 2020
Secondary Education
Cumbum, India
 - GPA: 10/10

PROJECTS

- EduAdapt: Personalized AI Tutor System with Fairness-Aware Learning** 2025 
Tools: Python, TensorFlow, Scikit-learn, OpenAI GPT-3.5, Hugging Face Transformers, OpenAI GPT-3.5, Hugging Face Transformers, Pandas
 - Developed an AI engine to adjust course difficulty based on pre-assessment scores, using Fairlearn to detect and mitigate biases.
 - Analyzed demographic data to ensure equitable access to learning resources and address knowledge disparities.
 - Used GPT-3.5 to generate quiz questions, minimizing human bias in assessments.
 - Integrated a feedback loop to dynamically adjust content and difficulty based on student performance.
- College Bus Pass Management System: A website designed to issue college buspass digitally** 2024 
Tools: React.js, Node.js, MySQL, Express.js
 - Designed and implemented a secure login system with authentication for students, coordinators, and admins.
 - Implemented role-based access for students, department coordinators, and admins with CRUD operations.
 - Designed an interactive bus layout for seat selection and integrated unique pass number search.
 - Enabled automated email notifications to students upon bus pass issuance with pass details.
- MoodChanger: A web app that provides personalized suggestions songs, or based on the user's selected mood.** 2023 
Tools: Python, Django, HTML, TextBlob
 - Developed a mood selection feature that increased user engagement by 30% through personalized suggestions (jokes, songs, ideas).
 - Implemented sentiment analysis with TextBlob, resulting in 95% accuracy in mood prediction from text input.
 - Created a suggestion system tied to mood choices, ensuring relevant and tailored recommendations for users' emotions.
 - Created a suggestion system, enhancing user satisfaction with user retention rates improving by 20%.



INTERNSHIPS

- Infosys Internship - Remote** November 2024 - February 2024
 - Completed a virtual internship contributing to Pet Haven project
- Android Development Virtual Internship** July 2024 - September 2024
 - Completed a virtual internship focusing on Android Studio.

SKILLS

- **Programming Languages:** Python, C, JavaScript
- **Web Technologies:** HTML/CSS React, Node.js, jQuery, Express.js
- **Database Systems:** MySQL, SQLite,
- **Cloud Technologies:** AWS (Amazon Web Services), Microsoft Azure
- **DevOps & Version Control:** Git, GitHub
- **Specialized Area:** Proficient in AI/ML, Sentiment Analysis, Authentication, Authorization
- **Professional Skills:** Communication, Teamwork, Research Skills, User Interface Design, User Experience (UX)

HONORS AND AWARDS

- **Ideathon Innovation Award** *December 2022*
Narasaraopeta Engineering College, Department of Innovation Council 
 - * Awarded first place in a competitive ideathon for presenting an innovative solution in farming"
 - * Received prize money and a certificate for exceptional innovation. The idea was selected from a pool of creative submissions.
- **NSS Literary Achievement Award** *June 2023*
National Service Scheme (NSS), Narasaraopeta Engineering College 
 - * Awarded first prize in an essay writing competition organized by the NSS, focusing on Environmental Sustainability
 - * This recognition highlights strong written communication skills and the ability to exhibit ideas clearly.
- **Competition Achievement** *February 2023*
Internal Hackathon, Frontend Web Services
 - * Got awarded for a 24 hour hackathon on web development
 - * Recognized for building an innovative and fully functional website

LEADERSHIP EXPERIENCE

- **Leadership Role - Team Leader, Smart India Hackathon (SIH)** *August 2024 SPOC / Narasaraopeta Engineering College*
 - * Led a multidisciplinary team of 6 members in the Smart India Hackathon, where our project was shortlisted for the national level.
 - * Successfully guided the team to implement a Self Billing App, leading to selection among top teams for national-level competition from a pool of best Indian Colleges.

CERTIFICATIONS

- **Hackerrank Python Certification** *June 2023*
- **InfosysSpringBoard Python Foundational Certification** *September 2023*
- **Hackerrank SQL Certification** *September 2024*
- **LeetCode Top50 SQL Certification** *August 2024*
- **FrontEnd Development Libraries Certification** *February 2025*

ADDITIONAL INFORMATION

Languages: English [Proficiency level -90%], Telugu [Proficiency level - 90%], Hindi [Proficiency level - 50%]

Interests: Coding, Design Thinking, Develops New AI Models, Arts, Innovation and Creativity.