PENDYALA PRANAV

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EDUCATION

Vellore Institute of Technology
Amaravati, India
Bachelor of Technology - Computer Science with Specialization in AI and ML
August 2021 - 2025

Courses: *Artificial Intelligence, Machine Learning, Design Analysis and Algorithms, Deep Learning, Operating systems, DBMS, Natural Language processing, Digital Image Processing, Computer Networks*

SKILLS SUMMARY

- **Languages**: Python, JAVA
- **Tools**: Jupyter Notebook, Numpy, Pandas, Matplotlib, Pytorch
- **Soft Skills**: Leadership, Event Management, Content Writing, Public Speaking, Hosting, Event Promotion, Networking

EXPERIENCE

Avyantra Health Technologies
On-site
Software Engineer Intern
Oct 2023 - Jan 2024

- **Optimized Backend Operations**: Improved website performance using Flask.
- **Clinical Data Analysis**: Enhanced neonatal sepsis predictions using Python and machine learning algorithms, including Random Forest Regressor.
- **Website Testing for PreSco**: Conducted functional and performance testing for PreSco, a machine learning platform for early neonatal sepsis diagnosis in India

Integrated Learning Systems(ILS)
Remote
Machine Learning Intern
June 2024 - August 2024

- **Application Testing and ML Algorithm Selection**: Tested application reliability and performance, and assisted in selecting and refining machine learning algorithms like XGBoost to improve model accuracy.
- **Cross-Team Collaboration**: Collaborated with various teams to integrate innovative ideas into projects.

PROJECTS

- **"Presco"- Neonatal Sepsis prediction** : PreSco is a cloud-based, machine learning-powered platform that helps healthcare providers in India diagnose neonatal sepsis early. Technologies used include Python for developing the ML model and performing exploratory data analysis. The platform analyzes clinical data to quickly identify at-risk newborns and facilitate prompt care. (Dec'23)

- **COVID-19 disease classification using transfer learning, CNN and Inception v3**: I developed a deep-learning model that predicts the presence of COVID-19, pneumonia, fibrosis, and tuberculosis. The model is linked to a web application that was created using Python Flask. The web application was hosted in the cloud platform using Python Anywhere. The dataset consisted of 17,000 images. (July'23)

- **T20 WC-2024 CHATBOT**: I developed an interactive chatbot using Python for T20 World Cup insights. Data was sourced from Kaggle and managed with Pandas. User queries were converted into numerical features using TF-IDF Vectorizer, and a Logistic Regression model was employed for classification. The chatbot interface was created with Streamlit to provide an engaging user experience (Sept'24)

PUBLICATIONS

- **COVID-19 Classification using CNN, Inception V3 and Transfer Learning**: I developed a deep-learning model that predicts the presence of COVID-19, pneumonia, fibrosis, and tuberculosis. The model is linked to a web application that was created using Python Flask. The web application was hosted in the cloud platform using the PythonAnywhere. The dataset consisted of 17,000 images. Publisher: IEEE. Published in: 2023 International Conference on Innovative Computing, Intelligent Communication and Smart Electrical Systems (ICSES)(March '24)

VOLUNTEER EXPERIENCE

Team Lead manager at Microsoft Student Chapter
VIT
I led meetings, recruited members, and organized events
Jun 2023 - Feb 2024

Special Event Manager for VTAPP 2022
VIT
Coordinated with club leads, managed stalls, and led a team of over 500 people.
Nov 2022 - Dec 2022

Secretary of Youtuber Club
VIT
I led a large group of juniors,recruited new members, and mentored younger students.
Apr 2022-Nov 2023

Administrative Head at Android Club
VIT
I conducted workshops, hosted events, led Flutter sessions, and sharpened my technical skills.
May 2022-Oct 2023

Student coordinator at IIEC
1 year
I helped develop the Institute's Entrepreneurship Council, welcomed guests, and conducted hackathons