INTURI JAISHNAVI

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Professional Summary:

BTech student (graduating in 2026) with expertise in AI, machine learning, and full-stack web development. Skilled in developing AI-driven solutions, deploying deep learning models, and building scalable MERN stack applications. Strong foundation in data structures, algorithms, and database management .

Projects:

HealthSphere:
Tech Used: React.js, Express.js, MongoDB, Flask, JWT , Node.js
Developed a full-stack healthcare ecosystem with three role-based interfaces—Patient, Doctor, and Hospital Administrator—to streamline medical services using AI and automation.
Patient Interface: Enables symptom & X-ray-based disease prediction, appointment booking, fitness & workout recommendations, mood-based chatbot, pill reminders, pill identification via image, emergency SOS alerts, insurance suggestions, and complete health record access.
Doctor Interface: Allows viewing appointment details, accessing patient health records, and generating AI-assisted e-prescriptions.
Hospital Interface: Manages bed allocation, doctor onboarding, pharmacy stock, and appointment approval workflows. Integrated advanced DL models for diagnostics and personalized care, improving healthcare accessibility, efficiency, and user engagement.

Cornea AI: HCEC Analysis & Disease Prediction:
Tech Used: Python, PyTorch, OpenCV, Vision Transformers, CNN
Developed an AI-powered system for analyzing Human Corneal Endothelial Cells (HCEC) images to automate cell counting and predict ocular diseases. The model leverages CNN and Vision Transformers for accurate classification, identifying key parameters such as cell count, density, coefficient of variation (CV), and corneal thickness (THK).The model predicts whether surgery is required and suggests the appropriate surgical procedure based on disease severity. This AI system enhances early detection, assists ophthalmologists in clinical decision-making, and provides precise surgical recommendations for improved patient outcomes.

Ocular Eye Disease Multi-Label Classification:
Tech Used: Python, TensorFlow, Keras, OpenCV, VGG16
Developed an ocular disease classification model using VGG16 architecture for accurate multilabel predictions. Preprocessed the dataset with CLAHE and Z-score normalization to enhance image features and ensure consistent scaling. The model achieved high accuracy in classifying 10 relevant ocular diseases from medical image data.

Technical Skills:

Programming	: C, Java, Python, Data Structures and Algorithms.
Frontend	: HTML, CSS, JavaScript, React.js
Backend	: Node.js, Express.js
Database	: MongoDB, Mongoose, MySQL
Data Visualization Tools	: PowerBI
Software	: VS Code, Git, GitHub

Education

Degree / Qualification	Institute	CGPA / Score	Years
BTech, CSE (Data Science)	B V Raju Institute of Technology	9.31 / 10	2022-2026
Intermediate (MPC)	Sri Chaitanya College	98.4%	2020-2022
SSC	Unique High School	10 / 10	2019-2020

Certifications:

Oracle - Java Fundamentals and Java Foundations
NPTEL - Python for Data Science
SoloLearn - Introduction to HTML
NPTEL - Problem Solving through Programming in C
Cisco - Programming Essentials in Python
Swecha - Summer of AI

Internships:

Swecha Summer of AI Virtual Internship:
* Developed and evaluated an Automatic Speech Recognition model.
* Collected diverse Telugu audio and video samples to support project goals.
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Data Analytics Virtual Internship by Eduskills:
* Assisted in automating data processing workflows for improved efficiency.
* Created data visualization dashboards to analyze key metrics.

Workshops:

Datathon – Power BI Workshop: Learned data visualization, dashboard creation, and data analytics using Power BI.

Achievements:

Secured 4th Place Overall and Domain-wise 2nd Prize at HackWithinfinity, a national-level hackathon.
Organized TechMaze, a college-level technical event ensuring smooth coordination and student participation.
Achieved 3rd prize in Inter-College level Codebreakers Competition
10/10 GPA in 10th, 98.4% in intermediate, BTech CGPA of 9.31 (up to 3-1 semester).

Technical Interests:

Web Development (MERN Stack)
Passionate about Deep Learning and Machine Learning, especially in healthcare and diagnostics.

About Me:

A proactive and adaptable individual with a growth mindset, always eager to take on challenges and innovate.
Passionate about making a meaningful impact through collaboration, problem-solving, and continuous learning.

Personal Details:

DOB : 30/04/2005
Marital Status : Unmarried
Languages Known : English, Telugu, Hindi
Address : APHB Colony, Hyderabad, India.