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Education

VIT Bhopal (2022 – 2026)

Computer Science and Engineering [CGPA: 9.05]

Bhopal, Madhya Pradesh

SKP Vidya Vihar (2018-2020)

Intermediate or Class 12th [Percentage: 86.2]

Bhagalpur, Bihar

Technical Skills

Languages: Java, C++, Python, JavaScript, MySQL, HTML/CSS

Tools: VS Code, Android Studio, Postman, GitHub, Cisco Packet Tracer

Cloud & Web: REST APIs, NodeJS

Databases & Algorithms: Oracle, MySQL, Sqlite, Data Structures, Algorithms

Other: AI/ML, Data Analysis, Web Development, Agile

Projects

LIFE+ | Python, AI, Data Visualization, Agile Methodology

08/2023 - 10/2023

- Spearheaded the development of user-centric application to optimize cancer-related information & data management, enhancing system stability by 30%.
- Implemented data visualization for complex medical datasets, improving comprehension by 40% .
- Led the development of an AI model for early tumor detection, achieving 85% precision & 90% recall.
- Utilized agile methodologies to enhance collaboration & user engagement by 20%.

DIABETIC RETINOPATHY | Deep Learning, Transfer Learning, EfficientNetB3, Inception V3

03/2024 - 05/2024

- Engineered a distributed application using deep learning to analyze 3,500 retinal images, improving detection by 15%.
- Developed models with transfer learning, achieving accuracies of 98% (EfficientNetB3) & 99% (Inception V3).
- Built an effective quality assurance framework, incorporating continuous integration for reliable assessments.
- Architected a robust multi-tier application framework for real-time analytics, enhancing data processing speed by 50%; implemented machine learning algorithms now utilized to predict customer behavior with 90% accuracy.

NewsNest | HTML, CSS, JavaScript, NewsAPI, Web Development

03/2024 - 05/2024

- Developed a news aggregation website with NewsAPI integration, offering a centralized source for authentic news.
- Implemented secure user authentication, ensuring verified access and reliable news delivery.
- Utilized HTML, CSS, and JavaScript to create a responsive and user-friendly interface.

Drone-Based System for Air Quality Monitoring | Flask, Django, Pandas, NumPy, Matplotlib, AI

Ongoing

- Developing a prototype software solution for real-time air quality monitoring using drone-based technology.
- Implemented APIs for data collection, GIS-based pollution mapping, and AI-driven greenhouse gas emission analysis.
- Simulating air purification mechanisms and visualizing real-time data through interactive dashboards.
- Utilizing Python, Flask/Django, and data analysis libraries (Pandas, NumPy) for data processing and visualization.

Assistive Object Detection Model | IoT, Object Detection, Text-to-Voice Generation

Ongoing

- Developing hardware & software for assistive object detection model for visually impaired users.
- Leveraged IoT & object detection tech. to create reliable system that detects objects & informs users via text-to-voice.

Achievements

Microsoft Azure OpenAI Service: Earned 8 badges and 1 trophy for learning and mastery.

Google: Completed the 'Bits and Bytes of Computer Networking' course.

Creative Design: Innovatively designed a cupboard for hostellers, using practical design skills & creative problem-solving.

Postman: Completed 'Postman challenge' and earned Postman API Fundamentals Student Expert certification badge.

India Space Lab: Successfully completed the Winter Internship with training in Advanced Drone Technology, CanSat & CubeSat, Space Entrepreneurship, and Astronomy.

Extracurricular

- Core Member, Event Team, Bashcraft Club, VIT Bhopal - Organized technical events and hackathons, fostering a collaborative learning environment.
- Participant, ML Workshop, VITronix IEEE - Enhanced AI skills through hands-on training and practical applications.
- Contributor, DEVTALK Podcast Series, Bit by Bit Dev Code - Showcased tech communication skills through content development and presentation.
- IoT Quiz Winner, Cranes Varsity - Secured 1st place in the IoT Quiz during a 2-day workshop, demonstrating exceptional knowledge of IoT with Raspberry Pi.