Kushagra Bhargava

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EDUCATION

VIT Bhopal University   Sehore, MP
Bachelor of Technology in Computer Science & Engineering (AI & ML)   *Sep. 2023 – Apr. 2027*
- CGPA: 8.01

EXPERIENCE

C++ Developer Intern   Nov. 2024 – Dec. 2024
Pinnacle Labs   *Remote*
- Developed a versatile command-line number conversion tool in C++ utilizing object-oriented principles to create a modular and maintainable codebase.
- Implemented and validated robust conversion algorithms for binary, octal, decimal, and hexadecimal number systems, ensuring mathematical accuracy.
- Collaborated with developers using Git for version control and participated in regular code reviews to ensure high code quality.

PROJECTS

Plant Disease Classifier | *Python, TensorFlow, Keras, MobileNetV2, Matplotlib*
- Implemented Transfer Learning using the **MobileNetV2** architecture to classify 38 plant disease classes, achieving high accuracy on validation data.
- Developed a Python-based Command Line Interface (CLI) tool to process leaf images and generate real-time disease predictions with confidence scores.
- Integrated **Matplotlib** to visualize inference results and utilized KaggleHub for automated dataset management and pipeline setup.

Mind Mate (AI-Powered Mental Health Companion) | *Python, Scikit-learn, XGBoost, NLP, React*
- Built an XGBoost model to predict mental health needs, achieving 78% accuracy on test data, and integrated a recommendation engine for personalized coping strategies.
- Developed a full-stack platform using React for the frontend and Node.js for the backend to deliver a seamless user experience.
- Created an AI chatbot with NLP to analyze user emotions and provide real-time, empathetic support.

Full-Stack Social Platform | *React, Node.js, Express.js, MongoDB, JWT, Redux*
- Secured the application with JWT-based user authentication and bcrypt password hashing to ensure data privacy and secure access control.
- Built a RESTful API with Node.js, Express, and MongoDB for efficient CRUD operations on posts, profiles, and social graphs.
- Designed a dynamic UI with React and managed application-wide state efficiently using Redux.

TECHNICAL SKILLS

Languages: C++, Python, JavaScript, Java, SQL, HTML/CSS
Frameworks: React, Node.js, Express.js, TensorFlow, Keras, PyTorch
Developer Tools: Git, GitHub, VS Code, Google Colab, KaggleHub
Libraries: Scikit-learn, XGBoost, Pandas, Matplotlib, NumPy

CERTIFICATIONS

MERN Full Stack Certification Training Course | Six Phrase   July 2025

Artificial Intelligence Primer | Infosys Springboard   June 2025

C++ Programming with DSA | GeeksForGeeks   Feb. 2025