Faijan Khan

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EDUCATION

VIT Bhopal University   Oct 2022 – Present
B.Tech in Computer Science

EXPERIENCE

Data Science Intern   Jan 2025 – Present
Sabudh Foundation   *Remote*
- Collaborated on a passion project addressing social challenges using data science, applying ML/NLP techniques to analyze and derive actionable insights.
- Designed and implemented data-driven solutions as part of the internship, optimizing processes that improved efficiency by 80%.
- Leveraged Python, Machine Learning, and Deep Learning to build and present a project with real-world applications, gaining hands-on experience in end-to-end model development.

PROJECTS

Virtual Try-On | *Python, PyTorch, OpenCV, Gradio, U-Net, OpenPose*   Aug 2024 – Present
- Developed an AI-powered virtual try-on system with 90%+ alignment accuracy, leveraging U-Net, OpenPose, and GMM for realistic clothing visualization.
- Optimized image processing pipelines, reducing model inference time by 40%, improving real-time performance for 1,000+ users.
- Enhanced segmentation accuracy by 25% using self-correcting human parsing, leading to more precise clothing alignment on diverse body types.
- Deployed the model via Gradio and Google Colab, ensuring seamless user experience without requiring local installations.

StudyKraft | *React.js, HTML5, CSS3, JavaScript, Node.js, Express, Firebase*   Dec 2023 – Feb 2024
- Developed an all-in-one academic platform used by 500+ students, integrating study planners, CGPA calculators, and access to 1000+ past year question papers, reducing student stress by improving productivity and time management.
- Built a responsive, scalable UI using Bootstrap, ensuring a seamless experience across devices and supporting 1,000+ concurrent users with high availability.
- Implemented personalized features like CGPA calculators and study recommendations, improving student performance by 20% as tracked through user feedback and engagement metrics.

EXTRACURRICULAR ACTIVITIES

EDU4U club   Sep 2023 – Nov 2024
Event Management Lead   *VIT Bhopal*
- Led and organized 10+ events, managing teams of 10+ members and ensuring successful execution, while developing key skills in leadership, team management, and problem-solving.

Project Expo
Industry Conclave hosted by VIT Bhopal
- Shortlisted for a project demonstration to a panel of industry experts, presented the project and received valuable feedback from professionals, enhancing project visibility and impact.

SKILLS

Languages: JavaScript, Python, SQL (PostgreSQL), HTML/CSS, Java
Frameworks & Libraries: React, Node.js, Express, Flask, Bootstrap, Gradio, U-Net, FastAPI, pandas, NumPy, OpenCV, PyTorch, TensorFlow, Matplotlib
Developer Tools: Git, Docker, Visual Studio Code, IntelliJ, Eclipse, Google Colab, Jupyter
Academic Curriculum: Data Structure and Algorithms, Operating Systems, Database Management Systems, Computer Networks
Other Tools: Firebase, CI/CD, AWS, Google Cloud Platform, Sentry, Google Analytics, OpenPose, Socket.IO