Ruchir Dhiman
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PROFESSIONAL EXPERIENCE

National Institute of Technology, Hamirpur H.P. **June 2024 - July 2024**

Deep - Learning Intern

- Created a diabetic retinopathy detection model based on CNN achieving 95% classification accuracy.
- Applied advanced image preprocessing techniques such as histogram equalization and data augmentation.
- Integrated the system with a user friendly interface.

EDUCATION

- **B.Tech |** Jaypee University of Information Technology, Solan (H.P.), India **| CSE** **2021-2025**
- **Senior Secondary |** Acme Public School Hamirpur (H.P.) **| HPBOSE** **2020-2021**
- **Secondary |** Him Academy Public School Vikasnagar (H.P.) **| CBSE** **2018-2019**

SKILLS

Programming Languages: C++, Python, Javascript, CSS, HTML
Operating Systems: macOS, Windows
Tools: Git, GitHub,VS Code, Figma, Canva, Wordpress, Adobe Photoshop, iMovies, Microsoft Office
Languages: Hindi, English
Soft Skills: Communication, Teamwork, Adaptability, Understanding project requirements

PROJECTS

Restaurant Photo Tagging

- Developed a CNN based model using VGG-16 learning to tag restaurant photos by ambience, food category and menu.
- Implemented class distribution analysis and visualization to ensure dataset balance and guide augmentation strategies.
- Achieved good accuracy for classification with less training time using pre trained ImageNet weights.
- Merged with a user-friendly interface.

Diabetic Retinopathy Detection using CNN

- Developed a deep learning model based on CNN ResNet-50 architecture to detect diabetic retinopathy from retinal images.
- Implemented advanced preprocessing including image normalization, resizing, and augmentation.
- Achieved a strong balance between precision and recall, ensuring reliability in healthcare diagnostics.

ACHIEVEMENTS/ACCOMPLISHMENTS

- Authored a chapter titled "Chatbots in Healthcare" in the book"3D Modeling in Healthcare: Transforming Medicine with Advanced Technologies", accepted for publication after review.
- Secured first place in the Bio-Hackathon at JUIT organised by JYC.
- Infosys Certificate in Python Foundation.
- Infosys Certificate in Network Security.
- Infosys Certificate in Applying Predictive Analysis.