Akhil Sadasivam

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EDUCATION

National Institute of Technology Karnataka, Surathkal　　　　Aug 2024 – Present
M.Tech Computational and Data Science　　　　*CGPA: 6.33*

SRM Institute of Science and Technology, Vadapalani　　　　Oct 2020 – May 2024
B.Tech Computer Science and Engineering　　　　*CGPA: 8.54*

EXPERIENCE

Graphic Designer Intern　　　　Jun 2023 – Sep 2023
Simtrak Solutions　　　　*Remote*

- Designed and optimized 40+ digital assets using collaborative design tools ensuring seamless integration with development workflows, contributing to a 15% boost in lead conversion
- Created interactive storyboards and multimedia assets aligned with product UI/UX, improving product communication and enhancing user engagement by 10%
- Produced and optimized 12 data-driven digital campaigns, leveraging testing insights and visual optimization
- Collaborated with designers to reduce UI integration time by 5% and ensuring pixel-perfect implementation across web and mobile applications

PROJECTS

Detection of Poultry Diseases using ConvNeXt V2

- Deployed a ConvNeXt V2 model pre-trained on ImageNet on a Dataset of 6812 images
- Achieved an accuracy of 98.97% in comparison to ResNet-50's 97.51%
- Enhanced model performance by conducting hyperparameter tuning and reducing training time by 20% without compromising accuracy delivering superior performance compared to the benchmark Resnet-50
- Collaborated in a cross-functional team of 3 people to integrate the solution into a scalable pipeline, ensuring real-world applicability delivering actionable insights enabling seamless integration into existing systems

Detection of Plant Diseases using FocalNet

- Implemented a FocalNet Model on the PlantVillage Dataset, that consists of 15 classes and 20,367 images
- Accomplished an accuracy of 99.76% that surpassed the models such as ViT (99.66%), Cvt-21 (99.61%), Inception-V4 (99.56%), ResNet-50 (98.84%) and VGG19 (98.59%)
- Reduced inference time by 28% through model optimization and efficient preprocessing pipelines
- Demonstrated superior parameter efficiency, requiring 10% fewer computations than comparable transformer-based architectures

TECHNICAL SKILLS

Languages: Java, C, C++, C#, JavaScript, SQL, Python
Frameworks & Libraries: TensorFlow, Keras, PyTorch, Scikit-learn, Pandas, NumPy, Matplotlib, Seaborn
AI & Developer Tools: ChatGPT, Microsoft Copilot, Firebase Studio, Lovable, Jupyter Notebook, Google Colab
Developer Tools: Visual Studio Code, Git & GitHub

CERTIFICATIONS

AI Engineering　　　　Jul 2025
IBM

POSITIONS OF RESPONSIBILITY

Placement Coordinator | Career Development Centre (CDC), NITK Surathkal　　　　Jun 2025 – Present
Internship Coordinator | Career Development Centre (CDC), NITK SUrathkal　　　　Sep 2024 – Jun 2025
USG Content & Delegation Head | SRMVMUN, SRMIST Vadapalani　　　　Apr 2023 – May 2024

PUBLICATIONS

- **IRCCTSD 2024** — "Detection of Poultry Diseases using ConvNeXtV2"　　　　Feb 2025
  Published in *Springer Proceedings in Advances in Animal Welfare and Management*