G NANDHA KUMAR

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B. Tech Student | Machine Learning & Deep Learning Enthusiast

Currently pursuing my BTech at Dayananda Sagar University, I have developed a solid foundation in machine learning and deep learning through various hands-on projects. Eager to apply my skills in a corporate setting, I am driven to contribute to AI/ML-focused roles, bringing data-driven insights and innovative solutions to real-world challenges.

EDUCATION

College / School	Degree / Standard	Passing Date	Grade
Dayananda Sagar University	BTech (CSE-AIML)	Present	6.46(CGPA)
Narayana PU College	12th STD	2021	71%
Sri Chaitanya Techno School	10TH STD (CBSE)	2019	67%

PROJECTS

1. **Image Reconstruction & Enhancement Using Deep Learning** Developed an AI model integrating U-Net for image reconstruction and ESRGAN for super-resolution image enhancement. Achieved SSIM = 0.997, PSNR = 43.24, and FID = 35 for high-quality image restoration. Utilized Stable Diffusion & SwinIR to further enhance image resolution.

2. **Loan Approval Prediction Using Classification Models** Created a classification model to predict loan approval likelihood using features like credit score, income, employment history, and debt-to-income ratio. Compared models like logistic regression, decision trees, and Naive Bayes.

3. **Text-to-Image Generator Using Stable Diffusion Models** Developed a deep learning model to generate high-quality images from text prompts using Stable Diffusion. Implemented a denoising diffusion process to convert random noise into images conditioned on textual descriptions.

4. **Low-Resolution to High-Resolution Image Generator Using Super-Resolution GANs** Built a Super-Resolution Generative Adversarial Network (SRGAN) to upscale low-resolution images, enhancing detail and clarity while preserving realism

5. **Symptom Checker Chatbot** Developed a chatbot that helps users identify possible medical conditions based on their symptoms. The chatbot asks questions to gather symptoms, then uses a machine learning model to suggest potential diagnoses or direct the user to seek medical attention

6. **Image Reconstruction using U NET for restoring the Noisy Data in to clear Image** Implemented a U-Net-based deep learning model to restore noisy images into clear ones by leveraging encoder-decoder architecture for efficient denoising and reconstruction.

SKILLS

- **Programming:** Python, Java
- **Data Manipulation &Visualization:** Power BI
- **Databases:** MySQL
- **Machine Learning:** Supervised & Unsupervised Learning, Deep Learning Models
- **Deep Learning Frameworks:** TensorFlow, PyTorch
- **Computer Vision:** OpenCV, Vision Transformers (ViT), U-Net, ESRGAN, SwinIR
- **Web Technologies:** HTML, CSS, JavaScript
- **Software Development:** Object-Oriented Programming (OOP), Data Structures

CERTIFICATIONS

- Completed "**Complete Hands-On Machine Learning and GenAI Tutorial with Data Science, TensorFlow, GPT, OpenAI, and Neural Networks**" on Udemy.
- Completed "**Cloud Computing Concepts and AWS Basics | Master AWS Fundamentals and Hands-on Skills on Amazon Web Services (AWS)**" on Udemy.
- **Artificial Intelligence with Python** course in **Coincent.**

HACKATHONS & COMPETITIONS

- **CODE-A-BIT Hackathon –** Dept of CSE (DSU)
- **Intercontinental Innova Quest -** 24 Hackathon Challenge – Dept of CSE (AIML), DSU

PERSONAL INFORMATION

Date of Birth	28th October 2003
Country	India
S/O	G Anil Kumar
Gender	Male
Languages Known	English, Telugu, Kannada, Hindi, Tamil
Strengths	Dedicated, Problem Solving, Effective Listener

I hereby declare that all above information is in correct with fact or truth up to my knowledge and I bear the responsibilities for the correctness of the above mentioned particulars.

G Nandha Kumar