

Irfan Agriya

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PROFESSIONAL EXPERIENCE

Cheslab Private Limited, Mr. Sanjay Kinra, Founder 

10/04/2023 - 10/06/2023

- Created a robust dataset of **100,000 labeled and 50,000 unlabeled skin condition images** by combining different datasets and web scraping.
- Used Python for end-to-end CNN model creation for skin disease image classification.
- Worked on a streamlined project development pipeline.

TECHNICAL SKILLS: Web Scraping | Python Programming | CNN Image Classification | scikit-learn | TensorFlow

SKILLS

Programing Languages: (Python | R | Arduino | SQL)

Machine Learning and Deep Learning: (Supervised learning | Unsupervised Learning | Neural Networks | Computer vision | TensorFlow | scikit-learn | NumPy | Pandas | Matplotlib | Beautiful Soup | Selenium | Flask | Tkinter | Streamlit)

Internet of Things (IoT): (Embedded Systems (Arduino, ESP32) | Hardware and Software Integration | Circuit design)

PROJECTS

Audio Caption Generation System for the Visually Impaired, Advanced ML Course project | 15 days

- Designed and implemented an end-to-end system for real-time image captioning and audio generation using **TensorFlow and InceptionResNetV2**.

Neural Style Transfer

- Developed neural style transfer with CNNs and pre-trained **VGG16-VGG19** to blend artistic styles with image content.
- Employed techniques like **Gram matrix** to refine loss optimization, resulting in visually captivating artworks.
- Engineered a user-friendly web app with the **Streamlit framework** for real-time style transfer.

Handwritten Digit Recognition, Machine Learning Course Project | 15-Days

- Explored a range of machine learning classification algorithms using the MNIST dataset. Conducted data preprocessing and performed comparative analysis across various algorithms to evaluate performance and efficacy.
- Developed a user-friendly app enabling the scanning of handwritten digits through device cameras.

Stock Market Prediction, Data Analysis Course Project | 15 days

- Implemented ARIMA forecasting and integrated pair trading for stock predictions with historical and real-time data.

Horticulture Data Analysis Project

- Data Visualization Project Utilizing R Programming: Illustrated **State-wise Crop Production, Production-Area Relationships, Distribution Box Plots**, and Percentage Contribution Insights, Enhancing Data Understanding.

PUBG Mobile Zone Dynamics Analysis

- Utilized statistical methods such as **Chi-Square** and **T-tests** to analyze data from competitive PUBG-M matches, revealing non-random patterns in safe zone formations.
- Generated **heatmaps** and **hypothesis testing** to enhance gameplay tactics, optimizing strategies for winning matches.

EDUCATION

11/2021 – 11/2025
Bangalore, Karnataka

Atria University, Bachelor of Technology (B. Tech) in Computer Science

- **Specialization:** Digital Transformation
- **Relevant Coursework:** Applied Calculus, Linear Algebra, Statistics, Data Visualization, Data Science, Machine Learning, and Deep Learning.

LEADERSHIP AND ACHIEVEMENTS

- Secured **second price in The Apprentice Project - Hackathon** (Create a animated-game on Scratch)
- Participated in multiple Model United Nations conferences and **won three Best Delegate and a Honorable Mention**.
- Got the **championship title in the secondary school chess tournament** by getting the first prize.
- As a **Student intern at Teach for India**, contributed to the training of newly recruited teachers.
- As **one of 100 global revolutionaries at Kids Education Revolution** engaged in reimagining the education system.
- **Led the school student body as the head boy**, to create a positive environment in the school.
- Worked as a **freelance content writer** for learning and being financially independent.