Vishwanath K R

Junior AI Programmer

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Mysore, India

Hi, I'm Vishwanath, an AI enthusiast and developer who loves building AI solutions for modern problems in the world. I recently developed an application which uses deep learning (dl) to predict human illness using encountered symptoms. Also, I work on classified medical data to develop DL models and bedside application to monitor infant's sleep/wake states in NICU. I'd love to combine my passion of learning and innovation to build more real-time problem-solving applications.

EDUCATION

Perusing Bachelor of Engineering

Vidyavardhaka College of Engineering (*01/2020 – Present)* *8.17 CGPA*

Artificial Intelligence & Machine Learning

AI programming with python Nanodegree

Udacity (*06/2022 - 10/2022)*

WORK EXPERIENCE

Intern

RIT campus (*09/2022 - 10/2020)*

Department of Medical science and electronics collaboration with MS Ramiah memorial hospital.
Medical data science, Bangalore, India

Data collection from NICU Processing the collected data Developing & implementing AI models

Head: Dr. Sriraam - sriraam@msrit.edu

Student Chapter Chair

Vidyavardhaka College of Engineering

06/2021 - Present, Mysuru, India

Management

-Event organisation

-Sourcing resource person

-Contribution in Department enhancement

*Head: **Dr.** Vinutha D C - vinuthadc@vvce.ac.in*

PERSONAL PROJECTS

1. ML model to predict human illness (04/2022 - 05/2022)

-With an accuracy of 100% based off the open-source data. The model was able to predict 40 types of diseases with 132 set types of symptoms and 120 sample symptoms for each disease.

-dataset size is 4800.

2. Use a Pre-trained Image Classifier to Identify Dog Breeds (05/2022 - 06/2022)

-Using a CNN that has learnt features from a dataset of 1.2 million images called ImageNet.

-This project is tested for three different architectures (**AlexNet**, **VGG**, and **ResNet**) and determine which is best for your application.

-VGG takes the win at an accuracy of breed prediction at 93.33%.

3. Prediction of Greyscale handwritten digits (06/2022 - 07/2022)

-MNIST dataset which consists of greyscale handwritten digits.

-Implemented using Pytorch.

-Model capable of recognising digits with above 95% accuracy based off the dataset.

-This project mainly showcased how to minimise losses with respect to network parameters.

4. Classifying Fashion-MNIST (06/2022 - 07/2022)

-Used Fashion-MNIST dataset of 28x28 greyscale images of clothes.
-Used PyTorch for development.
-Achieved better than 97% accuracy.

5. Created Own Image Classifier (08/2022 - 10/2022)

-Used a dataset comprising of 103 categories.
-Model is developed using Pytorch.
-chieved an accuracy of 90.99% over evaluation of data and 85% for test images.

SKILLS

Proficient in Python programming
Intermediate level proficiency in C programming
Intermediate level proficiency in Java
Image processing
Deep learning
Data Science
Medical data collection
Pytorch
Numpy& Pandas

ACHIEVEMENTS

Volunteered for organising Coding competition under VVCE CIS Student Chapter. (03/2022 - 03/2022)
Coding competition.

ORGANIZATIONS

MS Ramiah Institute of Technology (09/2022 - 10/2022)
Intern
IEEE (06/2021 - Present)
Student Chapter Chair

CERTIFICATES

Project Showcase Competition top 5 best project (04/2022 - 06/2022)
Mindtree & MSRIT
Virtual labs on AI and ML Concepts (04/2022 - 04/2022)
Mindtree & MSRIT
Vocational Programme on Practical Aspects of Computational Intelligence (04/2022 - 05/2022)
Mindtree & MSRIT
Virtual Labs on Python Essentials for Data Science (04/2022 - 04/2022)
Mindtree & MSRIT
How Can We Trust AI in Cybersecurity (webinar) (05/2022 - 05/2022)
IEEE
Frontiers in Computing Workshop (05/2022 - 06/2022)
Conducted by NITK

LANGUAGES

English
Full Professional Proficiency
Hindi
Full Professional Proficiency
Kannada
Native or Bilingual Proficiency

INTERESTS

Deep learning, Image recognition, Data Analytics, AI in Healthcare, AI in Cybersecurity