Prabhat Kumar Singh

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PROFILE

A postgraduate student seeking opportunities to leverage skills in Data Science and Artificial Intelligence. Enthusiastic about programming with good hands-on experience on Kaggle and a team player with good communication skills. Also, have 7 months of industrial experience in python and flask along with familiarity in android application and web development.

EDUCATION

02/2020 – present
Melbourne, Australia

Royal Melbourne Institute of Technology
Masters in Artificial Intelligence
- **Current GPA :** 3.5/4.0
- **Electives :** Practical Data Science with python, Discrete Structures in Computer, AI Professionals, Data Mining , Advanced Programming

08/2015 – 06/2019
Bengaluru, India

Sir M Visvesvaraya Institute of Technology
B.E. in Computer Science and Engineering
- **CGPA Obtained:** 7.60/10
- **Electives:** Artificial Intelligence; Data mining & Data Warehousing; Digital Image Processing; Big Data Analytics Undergraduate Coursework: Operating Systems; Databases; Algorithms; Programming Languages; Computer Architecture; Calculus III.

SKILLS

Programming Languages
Python, Java, C, HTML

Libraries
Keras, NumPy, Pandas, Seaborn, face_recognition

Framework
Flask, Bootstrap

Transferable skills
Leadership skills, Communication skills

PROFESSIONAL EXPERIENCE

07/2019 – 01/2020
Bengaluru, India

Mimyk Simulation Pvt. Ltd.
Junior Software Engineer
- Working on the back-end and architecture of the product, which is an advanced endoscopy simulation to help doctors in gaining practical experience before operating on patients.
- Creating and updating web pages to include new functionalities to enhance user experience as well as the robustness of the product, handling database, server management, writing test cases and documentation of the program so that other developers can understand and relate.

07/2018 – 10/2018
Remote

Jet Globo Technologies Pvt Ltd.
Android and Machine Learning Intern

- Developed an Android App from scratch for fetching news items from the server and displaying it using RecylerView and Volley. Wrote Php code to fetch items and encoded it to JSON format.
- Used Natural Language Processing for filtering customers feedback

08/2017 – 09/2017
Remote

Mr Hot Foods
Android Intern

- Removed bugs from the existing app and changed the user Interface for the whole app.
- Added profile activity for each registered restaurant and uploaded it on the play store.

PROJECTS

Face Recognition
A Kaggle project to demonstrate the learning of facial features. It includes facial landmarks, creating filters, face comparison based on 128 encoding values, and a bit about face swap. All this by using the face_recognition library.

GoogleNet Caffe
In this project, I have tried to identify the objects from a set of images and videos. BVLC GoogleNet Caffe model is used for this purpose, which is already pre-trained on 1000 classes, including animals and objects. So, we do not need to train any model.

Fruits image classification using Keras
This project aimed to classify the fruits dataset containing labelled images of fruits. Keras' sequential model is used to predict the labels of test images. I learned about the sequential model, max pooling, and dropouts. The model achieved an accuracy of 88%

All Regressor
Project to apply all regression techniques on a given CSV file using flask, jinja, and HTML.

Chat App
Created chat applications using flask SocketIO for peer to peer communication and WebRTC for communication through the server.

PUBLICATIONS

04/2019

Cross audio-visual recognition LIP READING
International Journal of Advanced Research in Computer Science and Software Engineering

ISSN: 2277-128X (Volume-9, Issue-4)

Lip reading is the task of decoding text from movement of a speaker’s mouth. There are two stages in the task namely the designing or learning the visual features and prediction. It learns the spatiotemporal visual features and the sequence model. The three dominant models that are being utilized to design the Lip reading is Convolution Neural Networks (CNN), LSTM’s and Reinforcement learning.

ACHIEVEMENTS

- 3rd Price in poster Presentation on Cross audio-visual recognition LIP READING by the National Academy of Sciences, India (NASI), March 2019.
- Won 2nd price is Alliance University Hackathon and awarded 3rd price in Idiotware Hackathon, Bangalore.
- 115 problems solved on HackerEarth and 12 repos on Kaggle.