MANISH KUMAR

Machine Learning Engineer

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SUMMARY

Focused and quick-learning Machine Learning Engineer with 1 year of experience in computer science, Python Developer, programming, Computer Vision, NLP, and Data Science areas for various projects and clients.

EXPERIENCE

Computer Vision
Dexler Energy

August 2020 – Jan 2021   ♦ Bengaluru

This company based on Bangalore, Karnataka. I am used to worked as computer vision Intern where i worked for agriculture project using Remote sensing Data, As we have entered an era of high resolution earth observation, the RS data are undergoing an explosive growth. The proliferation of data also give rise to the increasing complexity of RS data, like the diversity and higher dimensionality characteristic of the data.

Machine Learning Engineer
Lifetime Group

Jun 2019 – Jun 2020   ♦ Finland

In this company, I used to investigates how data mining algorithms can be used to predict Bodily Injury Liability Insurance claim payments based on the characteristics of the insured customer's vehicle. The algorithms are tested on real data provided by the organizer. The data present a number of challenges such as high dimensionality, heterogeneity and missing variables. The problem is addressed using a combination of regression, dimensionality reduction, and classification techniques.

Machine Learning Intern
Redcarpet Pvt Ltd

Dec 2018 – April 2019   ♦ New Delhi, India

This company provide loan for students where my work is find the details of student and set the loan features of every students where am using tools like python, postgresql, pandas and scikit-learn.

Achievement
Mentor-Getting and Cleaning Data (Coursera)

May 2018 – Ongoing   ♦ Remote

Invited by Coursera for mentoring the final course of Data Science Specialization(Johns Hopkins University) because of my exemplary performance in course.

EDUCATION

Master of Computer Applications
Pondicherry University

June 2016 – May 2019   ♦ Puducherry, India

Bachelor of Computer Applications
Magadh University

June 2013 – May 2016   ♦ Patna, India

MOOCS

Python for Everybody Specialization
Coursera

March 2018 – July 2018   ♦ University of Michigan

There are totally 5 courses in this specialization. Using this Specialization builds on the success of the Python for Everybody course and will introduce fundamental programming concepts including data structures, networked application program interfaces, and databases, using the Python programming language. In the Capstone Project, you'll use the technologies learned throughout the Specialization to design and create your own applications for data retrieval, processing, and visualization.

Deep Learning Specialization
Coursera

Oct 2018 – June 2019   ♦ deeplearning.ai

In five courses, i learned the foundations of Deep Learning, understand how to build neural networks, and learn how to lead successful machine learning projects. i have learned about Convolutional networks, RNNs, LSTM, Adam, Dropout, BatchNorm, Xavier/He initialization, and more.

Data Science Specialization
Coursera

Nov 2017 – Oct 2018   ♦ Johns Hopkins University

This Specialization covers the concepts and tools I go throughout the entire data science pipeline, from asking the right kinds of questions to making inferences and publishing results. In the final Capstone Project, I used to apply the skills learned by building a data product using real-world data.

PROJECTS

Image-orientation-correction-using-CVPR-dataset

- In this project, I'm used transfer learning to automatically detect the incorrect oriented image and correct it on correct orientation and the main reason behind using the tranfer learning via feature extraction because it gives higher accuracy when predicting the image orientation.

Drowsiness Detection Model

- This program is used to detect drowsiness for any given person. In this program we check how long a person's eyes have been closed for. If the eyes have been closed for a long period i.e. beyond a certain threshold value, the program will alert the user by playing an alarm sound.

Medical Imaging Segmentation

- Imagine speeding up research for almost every disease, from lung cancer and heart disease to rare disorders. The 2018 Data Science Bowl offers our most ambitious mission yet: create an algorithm to automate nucleus detection.

- We have all seen people suffer from diseases like cancer, heart disease, chronic obstructive pulmonary disease, Alzheimer's, and diabetes. Many have seen their loved ones pass away. Think how many lives would be transformed if cures came faster.

Machine Translation (English to hindi)

- The model translates English text to Hindi text with the help of LSTM. The project was implemented in Keras Framework on TensorFlow. An encoder was used to convert the English phrases to feature vectors that can be trained upon and a decoder converts the output vector back to normal Hindi text (utf-8)..

Predict-Future-Sales

- It is from a kaggle competition where we have to predict the future sales using Machine Learning or Deep Learning. It is a Advanced Regression Problem where Statistics and time series analysis is also required

- Its data is taken by daily historical sales data. The task is to forecast the total amount of products sold in every shop for the test set. Where i create a robust model that can handle such situations is part of the challenge.

SKILLS

Hard Skills
Deep Learning, Machine Learning, Image Processing, Computer Vision

Programming Languages & Database
C, C++, Python, R, SQL, PostgreSQL

Framework & Library
Numpy, Pandas, Matplotlib, Scikit-learn, NLTK,Tensorflow, Keras, OpenCV, Pyorch, Pillow, Flask, Rasa Stack

Research and Planning
Identifying Problems, Gathering Information, Developing Evaluation, Calculating Results

Cloud Based Technology
AWS, Google CGP, Docker, Git

Soft Skills
Leadership, Problem solving, Communication, Collaboration, Creative Thinking