Address

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Harman Bhutani

Software Engineer

Contact No.

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Objective

To work in a firm with professional work driven environment where I can utilize and apply my knowledge, skills which would enable me to grow while fulfilling organizational goals.

Mail

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Web & Git linkedin/HarmanBhutani

Education

2019-Present Master of Electronic Business Technologies

University of Ottawa, Ottawa.

2013-2017

Bachelor's Degree in Computer Science and Engineering Guru Nanak Dev Engineering College, Ludhiana(India).

Work Experience

Programming

harmanbhutani.github.io GooglePlay/Harman github/HarmanBhutani

> Python R Java JavaScript React Node.js C++ SQL

06/20 - PresentData Scientist

I am working as a Data Scientist in my Co-op term with Meta Innovation. I have contributed in development of their AI dashboard as well as educational portal on React and has also developed dashboard where user can upload their data and my binary classification model can classify data using sklearn and XGBoost. I worked on data modeling which involves reading the data from many different sources and creating a proper model that can be used to obtain analytical results for Dashboards and worked very closely with the whole team to come up with different opportunities that can drive business as

OS Preference

GNU/Linux ****

MacOS ****

Windows ***

08/20-10/20 Machine Learning Engineer

03/20 - 06/20 Machine Learning Intern

well as customer growth.

Deol Data

Meta Innovation Technologies

I have worked on various modules such as Object detection, Face recognition, historical recording of faces detected etc and has developed Android and iOS app for same as well as a proof of concept of idea. I helped team to chose which Machine Learning models to use and developing it and in storing data to be used in training and testing of the model.

Databases

MySQL MongoDB PostgreSQL PL/SQL SQLite Redis

02/20-09/20

Braiyt.Al

Developed a Machine Learning model to detect Licence Plates of cars from surveillance camera and save Licence plate text to Database . I used Single Shot Detector (SSD) in Keras with Tensorflow as backend and trained model with hyper-parameter tuning and model achieved mAP value of 94.3.Contributed to choosing which Machine Learning models to use and setting them up. Worked om preprocessing data to be in a format ready for the Machine Learning model (anomaly detection, normalizing).Taking ownership over certain datasets and being accountable for them being pre-processed accordingly.Taking ownership over Machine Learning models, being accountable for their training, accuracy and tuning.Contributed to the architecture of the code base. https://braiyt.ai/about/

Machine Learning

Regression
Naïve Bayes
Support Vector
Machines
Clustering
Classification
Random Forest
Natural Language
Processing

Platforms

Tableau
Apigee
Microservices
Tensorflow
Android
iOS
Splunk
Jenkins
Google Cloud

Positions of

Developer Group,

Montreal Google

Cloud Facebook for

Developers Google

Student Club Linux

Women Techmakers

User Group NSS

India Google

Responsibility

Computer Society of

01/20 - 05/20**Teaching Assistant**

University of Ottawa

Teaching Enterprise Architecture about integration of management and technology for various levels of organisations. Making students work on various frameworks and strategic plans for enterprise solution.

08/19-02/20Research Assistant

University of Ottawa

I have developed a research based app for smart watches which will monitor ECG from user's heartbeat and developed a machine learning model which is customise for each user and predict before hand if user is going to have heart attack or not and 6 other similar heart diseases. It will be available for iWatch and other smart watches soon.

08/19-12/19**Teaching Assistant**

University of Ottawa

Teaching assistant for course Computer Architecture, taking lab of students, teaching them working of Control Unit, ALU, Registers, Buses using Quatrus 2.

07/17-07/19 Application Development Analyst

Accenture

Developing Neural model using open source libraries such as Tensor-flow,sklearn etc. and visualisation using R and Tableau for 1M+ customers using Spark to scrape,clean and analyse large data for T-Mobile .Worked as a developer for Architecture Integration ePlatform and my work is to design and implement system that expose RESTful APIs using scripting languages, Microservices with API management tool called APIgee. Worked on Vmware in order to develop fault-tolerant highly available systems.Developed the complete architectural documentation of enterprise solution and presented to the Managing Director of the Client.

Hobbies

Internet Activist Solving Puzzles Playing Chess Reading Novels Listening music Watching Movies

Internships and Training

06/16 - 12/16 Machine Learning & Neural Network

GNDEC Data Science

Design and development of various algorithms of Machine Learning using various techniques such as Linear, Logistic Regression , K-nearest neighbour,reinforcement learning etc.Major Python libraries I worked on are Numpy, Pandas, SciPy, Scikit-Learn, Matplotlib, Seaborn, OpenCV, Keras, TensorFlow,Pytorch

06/16 - 01/17 Google Facilitator

Google,India

Selected as Google Facilitator from my college. Taught Students about Android and Artificial Intelligence under the program Google CS with Android Newspaper Image link

05/15 - 08/15 Big Data analytics using Hadoop

N.I.E.L.E.T, Mohali

Completed my 6 weeks industrial training in Big Data analytics using Hadoop where I worked on Map-Reduce algorithm and worked on various platforms such as Pig , Hive , HBase , Jaql etc.

05/15 - 08/15 Android Intern

Hum Hain, Ludhiana

Design, developed and successfully launched the official android app for ludhiana based delievery startup www.HumHai.in.

08/14 - 12/14 **Java Trainee**

3cm Infotech , Ludhiana

Three months training in Core Java.

04/14 - 06/14 **Trainee**

GNDEC, Ludhiana

Six weeks training in SQL Database.

Seminars

Java Trainer

Gulzar group of Institutions, Khanna

Delivered 6 weeks Industrial Training to second year Computer Science students at Gulzar group of Institutions from May,17 to July,17

Data Science DAV, Jalandhar

Attended I.T. day at DAV, Jalandhar and gave a seminar on rise and need of data scientist in this digital era addressing around 100 students.

Google Adwords

Chitkara University, Rajpura

Delievered a lecture on Google adwords and its fundamentals at Chitkara University under the joint program run by Google Student Club GNDEC and Chitkara University.

Certifications

Splunk Certified User

Splunk

Learnt about the basics of logs analytics and Splunk queries View Certificate

R Programming

Udacity

Learnt about the basics of R Programming Language and its various functions

Google Adwords

Google

Advertise locally and attract customers with the products that they search for

Machine Learning

Coursera

Machine learning where I worked on pattern recognition and neural networks

Android App Development Nanodegree

Udacity

Building an android application qualifying all the parameters specified by them

Big Data & Analytics

Amazon Web Services

Learnt basics about using amazon services for Data analytics.

Achievements

Runner up - MIT Reality Hack

MIT

Runner up in hackathon at Massachusetts Institute of Technology, USA where I developed an application for people suffering from ADHD and Autism.

Organiser TEDx Ottawa

TEDxOttawa

This is one of the highest award in Accenture. Awarded for great performance in the field of innovation and development of in-house application for better delivery of services for the Client.

ACE Award Winner - 2018

Accenture

This is one of the highest award in Accenture. Awarded for great performance in the field of innovation and development of in-house application for better delivery of services for the Client.

APEX Award Winner - 2018

Accenture

Awarded for showing excellent efforts in delivering and making project go live on time.

CII Hackathon Winner- 2017

Bill and Melinda Gates Foundation

I won the CII Hackathon 2017 at Pragati Maidan , New Delhi and awareded first prize by Head of Bill and Melinda Gates Foundation where I developed an application on Breast Cancer Classifier .

https://github.com/HarmanBhutani/BreastCancerClassification

Startup Weekend

Startup India

Awarded prize by Mr.Rakesh Bharti Mittal(Airtel) for young entrepreneurship. I proposed an idea of application based on IoT and Data Science in Medical field

TiE Hackathon Winner 2017

TiE,Chandigarh

Won Consolation prize in TiE Hackathon Competition , Chandigarh where I developed the Android Game for Blind People. http://hackathon.tiechandigarh.org

National Award for growing Startup

TiE, Chandigarh

Won award at TiE National award Ceremony in chandigarh for young growing startup. I developed an Android app and order management system for this startup

Newspaper Image link

Projects

Customer Churn Prediction using the Neural Network

Performed the Exploratory Data Analysis (EDA) to understand the relationships and produce the inferential statistical results.

Implemented the Random Forest for the feature selection.

Implemented the basic neural network using the Keras and accuracy produced by the classification model was 89.17.

Github - https://github.com/HarmanBhutani/CustomerChurnPrediction

Stock Prediction using Machine-Learning Algorithms $\it U$ sed NSE data on the Logistic Regression, Random Forest and RNN . Used Box plot for outliers detection and LSTM and GRU on RNN to remove the problem of decreasing gradient.

Used the NLTK to generate the sentiment analysis to check the impact of the trending news from Thomson Reuters.

MSE and RMSE values of our model are quite less which shows good accuracy. Github - https://github.com/HarmanBhutani/Stock-Market-Prediction