ADEEP MALMOTRA

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**Professional Summary**

Project Developer with 5+ years of experience. Areas of expertise include Web Designing, Analytics and programming in various languages. Athletic and Enthusiastic. Ability to adjust with any environment and people + Good Communication & Presentation skills. Learning and Encouraging Attitude. Ability to lead in front.

**Skills**

* Programming Languages: Core Java, Python
* Web Development: HTML, CSS, JavaScript, Flaks Rest API.
* Databases: Oracle, MySQL, MS SQL Server, MongoDB
* Research Area: Machine Learning, NLP, Deep Learning
* Analytical Skills: Tableau
* Big Data: Pig, Spark, Hive, HBase, Casandra, Drill, Phoenix, Presto, YARN, Tez, Mesos, Zookeeper, Oozie, Zeppelin, Hue, Kafka, Flume, Apache Storm, Flink
* Self-motivated, Team leadership

**Work History ­­­­**

**Solution Consultant** 5/2019 to 07/2020

**Quadwave Consulting Pvt Ltd – Bangalore, Karnataka**

* Working on Python for Machine Learning and Restful API
* Java for creating Restful API
* Designing solutions using Amper (a product based on BPMS).
* Mentoring company employees and company’s partner on Amper Tool whenever it is required.

**Note: Previously hired by AmperAXP which is subsidiary of Quadwave, later acquired by Quadwave.**

**Lead Trainer** 09/2018 to 05/2019

**Excelvisor Technologies – Bangalore, Karnataka**

* Worked on C, Python, Machine Learning, Data Science

**Project Trainer** 07/2013 to 06/2016

**Tata CMC – Jammu, J&K**

* Providing training on ASP.NET, C#, MS SQL Server, PHP, MySQL, Core Java.
* Achieved good success as the institute was new in Jammu, by providing quality training and working as a team.

**Note: Previously Owner had Tata CMC Franchise then took new Aptech Franchise.**

**Accomplishments and Projects**

* Paper Published: <http://ijoes.vidyapublications.com/paper/Vol27/12.pdf> (2018)
	+ - Made a Heart Disease Detection Program by modifying the K-Means Algorithm. Used Modified K-Means (back propagation concept with K-Means to achieve the maximum accuracy) to cluster the data and then used SVM to further classify the data.
* Machine Learning Based Projects :
	+ Predicting Delivery Dates: A company based in Germany was feeling difficult to predict delivery dates to give for the different products they manufacture as they had different machines to develop different kind of steel and orders were also dependent on already placed order, month of year and type of material. For them I developed the model independently where I achieved above 80% accuracy by doing a lot of data pre-processing, feature engineering, and parameter tuning.
	+ Created a model for Hyderabad based Agriculture Company for detecting plant disease and suggesting the medication using Deep Learning. As a company had different types on plants having different types of diseases for which we needed to train our model for multiclass classification. We achieved above 90% accuracy using Deep Learning.
	+ Product Recommendation System and Enhancing Rating:
* A web based E-Commerce Solution in which Product recommendation system is made by using Association Rule Mining of Machine Learning, Enhanced Rating procedure of product as previously, the star rating was the average of the star rating given by the customers now, star rating will include the average of reviews also and for that Natural Language Processing (NLP) is used.
	+ Student Profile Rating and Interest Area Recommendation:
		- A web based solution in which student Profile is rated on the basis of K-Means Algorithm and also K-Means++ is used to find the interest area of the student, and on the basis of interest area, various books are recommended by the system.
	+ FAQ Bot:
		- Built an FAQ bot for a top Indian private university to automate the inquiry process and generate leads.
	+ Semantic Representation:
		- Deployed Deep Learning models for semantic representation. Designed a scoring mechanism to retrieve the best FAQ match and custom model retraining modules for life-cycle management.
	+ Lyrics Generator Web App:
		- Built a custom Lyrics Generator app by training a language model on music lyrics data set.
		- Used AWS Sagemaker API to create training jobs and deployment of endpoints and AWS API Gateway to host it on a web app.
	+ Building Recommender System:
		- In this project I have built the recommender system for a banking client in order to provide the customer good experience when they try to book a package using the travel card. We used the train matchboxrecommender system in azure machine learning which generates the recommendations.
	+ Product Demand Forecasting:
		- Feature Selection for the model, maintaining the model with the new customer trend.
		- Trying different models of ML to see the learning curves, features engineering with ongoing data analysis.
		- Preparing assessment documents, design mock-ups/prototypes, screen pages, project delivery plan and power point presentations.
		- Coordination with multiple teams and stakeholders to support product development across locations.
		- Deep dive multivariate analysis on transactional and aggregate data.
		- Design and development of Data Science features of Data Science features for customer success management.
* Rest API:
	+ Created Chat services and payment services for a firm Lawyer2Lawyer in US using Java RestAPI and made many modifications in the control’s design of Amper Tool using CSS and JS.
	+ Created Web Services for Omega Company for processing, storing and fetching their Data using Flask Rest API.
* Implementation Projects:
	+ Created forms, workflows, dataflows (ETL Flows), wrote procedure, triggers and queries for Southern Water and received appreciation from client as the time limit was less and was hard to achieve the requirements but deployed the project within the timeline with zero defects.
	+ Request and Approval Workflows and application- Mentoring the interns for the live project.
	+ Incident Reporting System- Mentoring the interns for the live project.
	+ Projects/Employee Information System- guiding the interns for the live project.
	+ Performance Review in Developing Excellence- guiding the interns for the live project.

**Education**

**M.Tech:** Computer Science & IT July, 2018

**Central University of Jammu**- Samba

* Majored in Machine Learning.
* Graduated with 7.58 GPA.
* Dissertation: DISEASE DIAGNOSIS USING MODIFIED K-MEANS ALGORITHM.
* Member of ABVP and NSS and delivered the number of social duties.

**B.Tech:** Information Technology April, 2013

**Rayat Institute of Engineering & Information Technology-** Balachaur, PB

* Graduated with 64.65%.
* Majored in ASP.Net.
* Project: DIGITAL SAHAYATA
* Won Silver Medal in Volleyball Intercollege Competition.

**12th:** Non-Medical  March, 2008

**Jawahar Navodaya Vidyalaya Nud, Samba-** J&K

* Passed with 61.6%.
* Awarded 1st prize at Regional Level (Chandigarh Region) and 2nd prize at Cluster Level (J&K Cluster II) in mathematics exhibition.
* Awarded 1st prize at National Level for volleyball competition 2007 as team captain.

**10th:** Non-Medical  March, 2006

**Jawahar Navodaya Vidyalaya Nud, Samba-** J&K

* Passed with 75.6%.
* Participated in volleyball competition 2005 at Cluster Level (J&K Cluster II) as team caption.

**Certifications**

* Certified in Oracle 10g from DOEACC Center.
* Certified in Dot Net from HCL CDC.
* Certified in Machine Learning from www.udemy.com.
* Certified in Data Science from www.udemy.com.
* Certified in Python with Django & Flask from www.udemy.com.
* Certified in Big Data Hadoop from www.udemy.com
* Certified in Java Full stack from www.udemy.com