Raj Kumar
Software Developer

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About Me:

On the one end I am a professional **PHP** developer (Mainly working with **Laravel** and **VueJS** framework) and on the other end I am a **Machine Learning** Enthusiast having completed many challenging project with languages like **Python** and **MATLAB**, Now I am looking for some job opportunity which can fulfill my hunger to work with some challenging and exciting stuff in collaboration of above two fields.

Professional Experience:

1. Froiden Technologies Pvt. Ltd. Jaipur:

Software Developer   (Jun 2017 - Present)

In Froiden working as a **PhP Developer**, I have developed many innovative, exciting and challenging, applications belonging to various field of operation such:

Cryptocurrency Market	**E-Commerce**	**Entertainment**
Corporation Management	**News & Events**	**Automated Loan Processing**

Using **advance and modern technologies** such as:

Laravel	VueJS	Rest Api	OAuth	Two factor authentication	JWT Auth
Google Analytics	JQuery	Bootstrap	Ajax	Intervention image	Data Tables
Mail tracker	V-tables	Maps	Charts	Excel and CSV sheets	Modules

2. Xpanxion Int. Pvt. Ltd. Pune:
GIS Analytics Intern   (May 2016 - Aug 2016)

During this Internship I worked as a Geographical Information System Analyst in FirstFuel Software (A client of Xpanxion Int. Pvt. Ltd.) and complete various project based on **GIS Analytics** using tools like:

Quantum GIS	**Post GIS**	**PostgreSQL**	**LiDAR**

3. Power Grid Co. of India Ltd. Gurgaon:
Design Intern   (Jul 2015-Aug 2015)

During this Internship program I worked as Design Engineer Associate, and worked upon the project "**Selection of Conductor**" for extra high voltage AC transmission line.

Academic Details:

Degree	Stream	University	Institution	Duration	Result
B.Tech	EE	RTU	University College of Engineering, Kota (Raj)	2013-2017	72.56 %
Intermediate	PCM	BSER	S. N. Senior Sec. School, Nawalgarh (Raj)	2010-2011	71.38 %
Secondary	General	BSER	Govt. Sr. Sec. School, Bai, Nawalgarh (Raj)	2008-2009	72.00 %

Projects (Category wise):

A. Projects Based on Web Development

All of the project in this section have been developed using PhP Laravel framework as the backend development and blade or VueJS for the frontend development.

Title	Description
Great Health (May-18 to Present)	It is a fully functioning **Shopping Site** implemented with all the advance stuff like, **Two Factor Authentication, OAuth, Stripe and PayPal** Payments, Mark down editors etc.
Church (Apr-18 to May-18)	This project provides the Parish Pastors to **create** and **maintain** the monthly **report** of their Church, and submit it to their higher authorities like Area, Zonal and Provincial Church Pastors for the approval of funds and facilities.
Coin(ICO) (Mar-18 to Apr-18)	This project provides **new companies** a functionality to create, publish and maintain their **Initial Coin Offering**, so that they could get **sponsors** for their products.
Loan (Feb-18 to Mar-18)	This is a **fully automated** short term loan provider, where user has to watch some pre-recorded videos and answer some easy questions, we **record** the his **gesture**, create a **score of emotions** and depending on this score and user background loan is sanctioned.
Crypto Calendar (Jan-18 to Feb-18)	It is a news and cryptocurrency related events management site where users can post, vote and find events they are interested in.
YouTube Replica (Aug- 17 to Dec-17)	I have implement almost all the functionalities that are implemented in the original from general user pages to analytics and creator studio, and it is very hard to distinguish between original and replica if we consider the designs and performance on small scale.

B. Projects Based on Machine Learning

Most of the project in this section have been completed under the guidance of Andrew N.G. professor **Stanford University** and founder of **Coursera.**

Title	Description
Chess	This is an **Intelligent Chess game**, In which a user can play against another user or the Computer. The computer initially doesn't know how to play. But after playing some games with the user it gets train automatically and start learning, after sometimes it becomes the equal level player of the human player with whom it is playing.
Digit Recognition	This is an Image Processing based project aimed to recognize hand written digits. Using the data available on KAGGLE. The project was carried out using ANN algorithm.
Spam Emails Classifier	This is a **Natural Language Processing** based project which differentiate between spam and not-spam email using **Support Vector Machine** Classifier.
Titanic Survival Prediction	This is a **logistic regression** algorithm based project which has trained with the **some** passengers **data** of titanic ship in such a way that now it can predict for the **other** passengers that they survived during the tragedy night or not.
Movie Recommendation System	This project was aimed to predict and recommend movies to the user which are most probably be liked by him. Using his previous movie ratings and overall ratings on the movies. The algorithm used for the project is **Collaborative Filtering algorithm**.

C. Projects Based on Power System and Data Analytics
All of the projects in this section have been performed during Graduation Study under the **Guidance of Professors of RTU**. And implemented in **MATLAB and Simulink**
1. Differentiate Between Inrush and Fault Current of Transformer using Neural Networks for better **protection of transformer**.
2. Simulation of Hybrid Electrical Power System consists of Renewable sources like solar and wind energy.
3. Design of Solar cell MPPT using Grey Wolf Opt. Tech. for fast and better performance of solar system.
4. Simulation and analysis of faults in extra high voltage **transmission lines**.

D. Projects Based on Geographical Information System(GIS)	
Guide	**Projects Overview**
Mrs. Priya Gupta (Modelling and Data Analyst team Xpanxion)	Develop understanding of OSM and Identified reasons for poor hit ratio of OSM Api and possible reasons behind GSF inaccuracy.
	Develop basic understanding of LiDAR application for GSF, identified data source for LiDAR and shape files, learn about tools in this space like QGIS, POSTGIS, and use it to calculate the parameters of Buildings if the address of the building is provided.

Programming Language:

PHP	Python	Matlab
JavaScript	Java	C/C++

Software Packages and frameworks:

Laravel(PhP)	VueJS	Spyder/Anaconda(Python)
Matlab/Simulink	MySQL	QGIS
Api Integrations	PostgreSQL	PostGIS

Personality:

Traits	Hobbies & Interest	Current Field of Interest	Languages
Hard working	Research	Machine Learning	English
Quick Learner	Sketching	Data Analytics	Hindi
Loyal	Dancing	Web Development	