

# Shreya Joshi

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## Educational Qualification

Year	Degree	Institute	Board/University	CGPA/Percentage
2015-19	B.E. in Computer Engineering	Ujjain Engineering College, Ujjain	RGPV	7.7*/10
2014	Class XII	New Digamber Public School, Indore	CBSE	85.2%
2012	Class X	New Digamber Public School, Indore	CBSE	8.4/10

\*pursuing (up to 7<sup>th</sup> semester)

## Projects developed

<b>S.No.</b>	<b>PROJECT</b>	<b>DESCRIPTION</b>	<b>DURATION</b>
1.)	<b>Open charge point protocol based project</b>	The <b>Open Charge Point Protocol (OCPP)</b> is an application protocol for communication between Electric vehicle (EV) charging stations and a central management system, also known as a charging station network, similar to cell phones and cell phone networks.	3 Months
2.)	<b>Image Processing Tool</b>	This tool can be used to image processing operations like converting to grayscale, scaling, adding water mark etc. It has a GUI interface and a CLI interface. I also wrote API for python which can be used by any programmer to process images through his/her application.	3 Months
3.)	<b>ORM Framework</b>	A Java framework that frees the user from writing sql code. It has a gui tool to map java objects with database	4 Months

tables. Then for performing database operations, all the user has to do is ask the framework to insert, update, delete, select objects. The framework also supports aggregation and grouping functions.

4.)	<b>Web services Framework</b>	This J2EE framework enables the user to create server side services by just annotating the methods with url paths. The user doesn't have to worry about the request response part. He doesn't have to write code for servlets, file uploads, downloads, he can just write code as if he is writing core java code. A full fledged web application can be developed using this framework. Then I recreated the same for NODE JS.	2 Months
5.)	<b>Geo Location Service For removing water scarcity</b>	<p>The software considers a region on a map and takes:-</p> <ol style="list-style-type: none"><li>1.) Information of groundwater level and population density of points on that region that are 1 km apart.</li><li>2.) A "budget" given to the authority to build artificial water bodies in that region.</li><li>3.) Labour cost of building an artificial water body in that region</li></ol> <p>as inputs and plots the point on that region where it is economically feasible for authorities to build the water bodies and will also cover the maximum possible population of that region to remove water scarcity.</p>	1 Month
6.)	<b>Custom media player</b>	<b>It is web based html5 video player that uses media and fullscreen Apis and works across all dekstop and mobile browsers.It contains custom controls rather than having html 5 media defaults.It uses Media Api for custom controls.These application maintains source buffer for audio and video segments with the help of media source Api which stream video on</b>	1 Month

## the browser

- |     |                             |  |                                     |
|-----|-----------------------------|--|-------------------------------------|
| 7.) | <b>Matrix Visualizer</b>    | A matrix operations visualizer that can help students understand the concepts related to matrix / vector operations. I developed this application as a web application where I used javascript / canvas programming to draw necessary structures/results.  | 1 Month<br>And still working on it. |
| 8.) | <b>Machine Learning API</b> | Implemented various Machine Learning Algorithms - Supervised machine learning. Linear Regression using gradient descent approach to reduce cost, using Octave. Wrote a neural network API for C Programming language.  | 1 Month                             |
| 9.) | <b>Webserver in nodejs</b>  | <b>It is a http based webserver that listens to server ports and gives back responses to client. Web server handles all type of request (Get,Post,put,delete), session management,maintains privacy of data with the help of cookies travelling along header part of requests and responses.</b> | 1 Month                             |

## Education Specialization

- 1.)Have secured All India 19 th rank in Techgig Geek Goddess coding contest.
- 2.)Have secured All India 18 th rank in Techgig Geek Goddess Machine Learning Hacathon.
- 3.)Finalist Intel Mcq challenge held on techgig platform
- 4.)Have taken Specialization in Machine Learning taught by Andrew Ng (coursera)
- 5.)Have taken Specialization in c++ from nptel.
- 6.)Qualified for Facebook Hacker Cup upto Round 2.
- 7.) Qualified **Google code jam** for Round 1.
- 8.)Google specialisation in machine learning

## Experience

**12 th November 2018-present:**Intern at thinking machines

Developing open charge point protocol based project for the startup(Tvesas Electrical Solutions).

**Product Title-1 Volttic - Electronic Vehicles Charging Management (EVCM)**

- **Description:** Electronic vehicles charging management solution to manage entire charging process.
- **Client:** Tvesas Electric Solutions Pvt. Ltd.
- **Location:** Ujjain
- **Team Size:** 3
- **Domain:** Electric Vehicles Charging
- **Technologies:** Java-J2EE, Javascript, MySQL, HTML, Bootstrap, CSS, Web Socket, Tomcat.,Android
- **Operating System:** Windows
- **Tools:** TMORMFramework
- **Modules handled:**

1. Creating Electronic Vehicles Charging Machine simulator:- System that serves as a EVCM simulator as per OCPP-1.6 protocol specification.
2. Building content management system for different users like admin, partners, etc.
3. Developed android app named as volttic to handle all the transactions related to ev machines.
  - Roles & Responsibilities:
  - Discussing implementation details with team members.
  - Developing assigned modules and unit testing.
  - Resolving the bugs and analyzing the new requirements or suggestions.
  - Used TMORMFramework tool for the automatic generation of classes related to the tables in database.

## Positions of Responsibility

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- 1.) Member of Indian Society Of Technical Education
- 2.) Founder of **XCEPTION**, the computer science and engineering society of Ujjain Engineering College. (visit us at [xception.co.in](http://xception.co.in))
- 3.) Participated in Rajasthan Hackathon 3.0 as the Team Member of the team **TM Coders**.
- 4.) Core member of organizing team of a 3 day event organized by **XCEPTION** which included:-
  - a.) Lectures from IIT Professors on the topics of Machine Learning, Networking and Search Engine Optimization.
  - b.) Motivational Talks from various personalities from all around the country.
- 5.) Volunteer in Ethical Hacking workshop

## Skills

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S.NO.	SKILL	EXPERTISE			
1.)	<b>JAVA</b>	<u>ADVANCED</u>	<u>13.)</u>	<b>Python</b>	<u>INTERMEDIATE</u>
2.)	<b>C Programming</b>	<u>INTERMEDIATE</u>	<u>14.)</u>	<b>Data Structures</b>	<u>ADVANCED</u>
3.)	<b>C++ Programming</b>	<u>INTERMEDIATE</u>	<u>15.)</u>	<b>Image processing</b>	<u>INTERMEDIATE</u>
4.)	<b>Servlets</b>	<u>ADVANCED</u>	<u>16.)</u>	<b>Algorithms</b>	<u>INTERMEDIATE</u>
5.)	<b>HTML5</b>	<u>ADVANCED</u>	<u>17.)</u>	<b>Machine Learning</b>	<u>BEGINNER</u>
6.)	<b>JavaScript</b>	<u>ADVANCED</u>	<u>18.)</u>	<b>Graph Theory</b>	<u>INTERMEDIATE</u>
7.)	<b>AJAX</b>	<u>INTERMEDIATE</u>	<u>19.)</u>	<b>Neural Network</b>	<u>BEGINNER</u>
8.)	<b>Android</b>	<u>INTERMEDIATE</u>			
9.)	<b>Node.js</b>	<u>ADVANCED</u>			
10.)	<b>jQuery</b>	<u>ADVANCED</u>			
11.)	<b>CSS</b>	<u>ADVANCED</u>			
12.)	<b>TypeScript</b>	<u>ADVANCED</u>			