Rajdeep Mukherjee

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EDUCATION

NIIT University, Neemrana, Rajasthan, India. **CGPA (as of Dec 2016): 8.75**
Bachelor of Technology, Computer Science and Engineering, 2018 (exp)
Don Bosco School, Liluah, Howrah, West Bengal, India.
Class XII (ISC), 2014 **Aggregate: 93.75 (Math: 94, Computer Science: 99)**
Class X (ICSE), 2012 **Aggregate: 93.2 (Math: 100, Computer Science: 96)**

SKILLS

- **Programming Languages**: **Python (version 3), Java, C, C++, Javascript (nodeJS), PHP**.
- **Web and Software Development**: Familiar with **HTML, CSS, jQuery** and frameworks like **Bootstrap.**

Highly familiar with design paradigms like **MVC (Model View Controller)**. Built numerous Web apps using Python (v3), Javascipt (**nodeJS**) and PHP. Frameworks include **Express (nodeJS), PyQt (python) and Flask (python).**
Familiar with database querying languages like **MySQL**, designed databases for both native and web apps.
Highly familiar with VCS like Github and other collaboration tools. I am experienced in Unix systems as well.

- **Languages***:* English, Bengali and Hindi.
- **Hobbies***:* Video Gaming, Painting, listening to music and watching movies.

PROJECTS

- **ProjectRecommend** **Aug 2016-Dec 2016**

A music player that can recommend songs from your offline music collection. Developed using **PyQt (python)**. **SQLite** was used for database integration. Team consisted 6 members.
Contribution: Built persistence layer for music collection (SQLite database) and worked on song metadata reading and writing using ID3 tags. Check it out: github.com/ProjectRecommend/recommend

- **Share50 (CS50 Final Project)** **May 2016-Aug 2016**

A web application where a registered user can schedule tours and share photos among friends and family in a common portal. Developed using **nodeJS** for back-end and **MySQL** for database. Check it out: github.com/RiflerRick/Share50

- **MusicSurf** **Jan 2017-Present**

A web application that can conduct natural language search on song metadata of your offline music collection. Developed using **Flask (python v3)** and **MySQL** as the database. Check it out: github.com/electron0zero/MusicSurf

RESEARCH AND DEVELOPMENT

Cross Domain Collaborative Filtering (CDCF) under the guidance of Dr. Prosenjit Gupta **Jan 2017-Present**
CDCF is currently one of the major forms of recommendation. This research focusses on alleviating major issues including scalability in large datasets using concepts of partitioning and dealing with the sparsity and cold-start problems in user datasets.

CERTIFICATIONS

- **CS50: Introduction to Computer Science, edx** **Dec 2015-Aug 2016**
  Conducted by Harvard University
- **Web Development, VTC Online Training** **May 2015-July 2015**
  Internshala
- **Java for Android, Coursera Online Training** **Dec 2016-Jan 2016**
  Coursera