VATSAL BATRA

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WORK EXPERIENCE

MakeMyTrip – Gurugram, India
SOFTWARE ENGINEER - Hotels Core Team   **JUNE 2019 – PRESENT**
- Worked on the **Recommendation System** from scratch**,** which provides the cheapest combination of rooms.
- Implemented the **Discount Correction System** to increase the selling price of a room such that the price is still less than the competitor's minimum price but more than our current offer price. This enabled higher profits and more user engagement.
- Worked on **Rate Suppression System**, which allows showing selective rates to particular customer segments.
- Improved the **Rate Comparator System** to provide the cheapest room by comparing similar rooms from different sellers for different segments of customers.
- Developed **Cancellation Retry System** using Spring Boot framework to automate the procedure of retrying failed cancelled bookings to reduce the monetary loss associated with cancellation request failures.
- **Dockerized** the above projects by migrating all **EC2** instances to **ECS**.

Aspiring Minds – Gurugram, India
RESEARCH INTERN   **JUNE 2018 – JULY 2018**
- Designed a code suggestion system, which improves the overall learning experience for the students by providing them with real time suggestions on how to improve/correct the code.
- Developed an algorithm to break down the code into more than 16000 features and compare the selected "good codes" against the candidate's code to provide necessary suggestions.

booksquare.in – Delhi, India
SOFTWARE DEVELOPMENT INTERN   **JUNE 2017 – AUG 2017**
- Designed an online portal to allow transaction of good quality books at the competitive price using Django framework and MySQL database.

EDUCATION

Delhi Technological University, DELHI, INDIA   **2015– 2019**
BACHELOR'S IN TECHNOLOGY – 8.45/10

Bal Bharati Public School, DELHI, INDIA   **2013– 2014**
CLASS 12TH BOARD PERCENTAGE– 93.2

Bal Bharati Public School, DELHI, INDIA   **2011– 2012**
CLASS 10TH CGPA– 9.4

PROJECTS

Home Automation System for Delhi Technological University
- Designed a home automation system to control the state of appliances in a room using machine learning and IP-camera.
- Used an IP camera to detect the real-time position of one or more people in a room and used machine learning to detect their distance from each of the appliances. This distance is used to calculate the proximity of a human to an appliance and accordingly turn ON the closest appliance using the RasberryPi circuit.
- Developed an IoT application for the system to provide a passive control.
- During the initial testing phase, the product showed a promising result of about 9% reduction in total electricity usage.

Cheatcode.herokuapp.com/
- Developed a Django based application, which provides company-specific question bank to college students to ease the preparation for interviews.
- Added an option to save the questions as PDF to facilitate offline study.
- During the placement session, the site garnered traffic of more than 1,000 active users.

Chatbot for Facebook
- Designed chatbot for a Facebook page, using the Django framework.
- Added capabilities to enable response to basic salutation questions or to send the most suitable emoticon for every message it receives.

CERTIFICATIONS

- Coding Blocks – Data Structures and Algorithms
- Coding Blocks – Web Development
- Henry Harvin – Green Belt Six Sigma

TECHNOLOGIES

- Languages: C++, C, Python, Java, JavaScript
- Web Technologies: Django, HTML, CSS, JavaScript, jQuery, Materialize, Spring, Spring Boot
- Database Systems: MySQL, MongoDB