Riddhi Nisar

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EDUCATIONAL EXPERIENCE

Veermata Jijabai Technological Institute, Mumbai, India   **May 2020 (Expected)**

Bachelor of Technology in Computer Engineering; GPA (9.0/10.0)
•*Machine Learning* •*Artificial Intelligence* •*Statistics & Optimization* •*Fundamentals of Databases* •*Data Structures & Algorithms*

EXPERIENCE

Deloitte India (Offices of the US), Bangalore, India – *Technology Intern*   **May 2019 - July 2019**

- Built data models, BI reports, data conversions by data & business validation in Oracle Cloud ERP & created technical specifications for given functional specifications.
- Professionally trained in business processes, BI Reporting, Conversions, RPA tools and data modeling.
- Real-time experience of cloud integration into data warehouse using DellBoomi iPAAS Solutions.

Oil & Natural Gas Corporation Limited (ONGC), Mumbai, India – *Technology Intern*   **Dec 2017 - Jan 2018**

- Studied and analyzed various systems, technologies and InfoCom activities at ONGC, including voice and data communication, VSATs, protocols & servers in use, and the SCADA system in place.
- Implemented a web project CRAMS (Conference Room Authorization and Management System) supporting ONGC's green paperless initiative.

RESEARCH & PROJECTS

Mood-aware visual question answering | *Python, Keras, LSTM, CNN*   **July 2019 – current**

- Implementing and improving the accuracy of baseline models for visual question answering using a mood-detector module applying LSTM and CNN using the Keras framework.
- Published a paper "Visual Question Answering using combination of LSTM and CNN: A Survey" in the International Research Journal of Engineering and Technology (IRJET) Volume: 06 Issue:10

Sentiment Analysis – *Amazon Reviews* **| *Python, Keras***   **May 2019**

- Utilized open-source dataset from Kaggle containing 4 million reviews & cleaned the data for text pre-processing.
- Achieved accuracy of around 94% by preventing over-fitting using batch normalization & Conv1d layer of Keras.

News Aggregator | *Python*   **April 2019**

- Aggregated and classified news based on the title/headline. Used four categories and three algorithms (random forest, naïve bayes and logistic regression), compared them and analyzed the accuracies.

Smart Lights & Music – *IoT-based* **| *Android, Raspberry Pi***   **Nov 2018**

- Controlled light intensity and music by building an Android application, integrating it with a Raspberry Pi microcontroller using WiFi module.
- Used ultrasonic sensors to detect user-movement thus allowing music to be played in respective rooms & speakers only.

Vehicle License System | *C# desktop application, website*   **Oct 2018**

- Created a website for applicants to register/login, fill license forms and upload documents.
- Built a C# desktop application using Microsoft Visual Studio to be used by officers on the RTO computers to validate the uploaded documents by checking them against the originals and grant/deny license to applicants.

BookMySeat | *XAMPP, SQL, PHP, HTML/CSS*   **April 2018**

- Developed a website on which local rail travelers can login and can exchange seats based on where one traveler is getting down and another boarding. Used XAMPP server, created train database, modified the status of seats using SQL queries (DDL, DML, triggers, events), webpage layouts using HTML/CSS.

E-Certi | *JAR Application*   **Nov 2017**

- Automated generation of 1300+ e-certificates by developing a Java JAR application using Applet and Swing framework and JDBC connection framework.

TECHNICAL SKILLS

Languages: Python, R, Octave, C++, C, Java, C#, Javascript, SQL, PHP
Tools & Libraries: Git, NumPy, Scikit-learn, Tensorflow, Keras
OS & Applications: Ubuntu, MacOS, Windows, Android Studio, XAMPP, LaTeX, Arduino IDE

LEADERSHIP EXPERIENCE

- **CS Mentor**, Community of Coders, VJTI - Taught C in a workshop of 50+ students & mentored CS juniors.
- **Joint Secretary**, Debate and Literary Arts Society, VJTI - Conducted MUNs, debates, book clubs, quizzes.
- **Chief Editor,** Nirmaan, VJTI's magazine - Reintroduced Nirmaan in 2018-19 and headed a team of 20 junior and senior editors.
- **Under Secretary General**, VJMUN (VJTI's Model United Nations) - Set committee agendas as part of the Research Division.