JAY KANAKIYA

601/59 Gokul, 60 feet road, Ghatkopar East, Mumbai| jay.kanakiya@somaiya.edu | +91 9819984770

EDUCATION

K.J Somaiya College of Engineering, Mumbai   **Expected: May 2020**

Candidate for Bachelor of Technology in Information Technology *with First Class (CGPA: 7.31/10)*

Relevant Coursework: Data Structures, Algorithms, Operating Systems, Computer Graphics, Database Management Systems, Advanced Databases, Information Theory and Coding.

K.J Somaiya College of Science and Commerce, Mumbai   **June 2016**

Secured *First Class* (76%) in Higher Secondary Certificate Examination.

PROFESSIONAL EXPERIENCE

Drishti Works, Mumbai   **Jun 2018 - Aug 2018**

Research Intern - Machine Learning

- Conducted a data driven research to identify potential risks such as drowning incidents and surfing accidents of around 40 beaches in Goa.
- Designed a Machine Learning model to predict the factors related to the different category risks like low, medium and immediate.
- Created a script for logging weather data every day.
- Technologies Used: Python with libraries - numpy, pandas, matplotlib, scikit-learn, OpenCV, Tensorflow, Gazebo.

Venn Think Labs, Mumbai   **Dec 2017 – Jan 2018**

Intern - Software Engineering

- Aided develop a native application using React Native, which uses data clustering to cluster people with similar interests.
- Designed complete UI/UX of the application by adding MongoDB connectivity to the app for data storage.

ACADEMIC PROJECTS

Receipt Reader

- Incorporated receipt reading functionality to the Monzo Bank's existing application to simplify bill tracking.
- Implemented features to upload photos of bills as well as employed an OCR to convert picture of the bills into text.
- Programmed the app to analyze and graph the expenses into different categories such as food, fuel, rent etc.
- Employed a feature to interlink the app with the bank account to enable the user to pay through their Monzo account.
- Technologies used: Python, Google Vision API, flask, Monzo API.

Rinnegan

- Developed an application to track users blinking pattern using haar cascades in computer vision to avoid dry eyes syndrome or computer vision syndrome.
- Programmed a blink detection interface using haar cascades in opencv and Python programming.
- Created an eye relaxation game for users, to relax their eyes after hours of exposure to the screen.
- Technologies Used: OpenCV, python, pygame.

Gistly

- Designed an application to convert long videos into a summarized video of shorter duration using LSA and NLP.
- Extracted video transcriptions to summarize the video using Latent Semantic Analysis and other Natural Language Processing techniques to extract keywords and relations.
- Technologies Used: Python, flask, JavaScript.

Technical Strengths

- Programming: Python, C, C++, Java, JavaScript, Matlab/Octave
- Libraries and Frameworks: ReactJS, jQuery, Scrapy, BeautifulSoup, Flask, Bootstrap
- Data Tools: numpy, pandas, matplotlib, seaborn, scikit-learn, Tensorflow
- Databases: MySQL, PostgreSQL, MongoDB
- Tools and Platforms: OS X, Linux, Windows, Git, Latex

EXTRA CURRICULAR ACTIVITIES

- Appointed as the Joint Creative Head, of Codecell, a Codechef campus chapter. Organized programming workshops and competitions and publicized Codecell programs on social media platforms.
- Participated in numerous hackathons conducted by IIITA and Cambridge University UK during the year 2019.
- Won 5th place among 100 teams in HINT 3.0, India's largest student-run hackathon conducted by IIIT Allahabad in the year 2018.
- One among the Top 15 Teams in the Hack Cambridge 4D in the year 2019.
- Participated in ACM ICPC 2018, an international collegiate programming contest on problem solving using data structures and algorithms.