

Sajal Chandra

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EDUCATION

UNIVERSITY OF ILLINOIS AT CHICAGO

MS IN COMPUTER SCIENCE

Aug 2022 - May 2024

GPA : 4.0/4.0

Relevant Coursework

- Natural Language Processing
- Visualization and Visual Analytics
- Big Data Mining
- Advanced Machine Learning

MAHARAJA AGRASEN INSTITUTE OF TECHNOLOGY

B.TECH IN ELECTRONICS AND COMMUNICATION ENGINEERING

2017-2021 | New Delhi, INDIA

GPA: 8.38 / 10

SKILLS

PROGRAMMING

Languages

Python • Go • JavaScript • C&C++
MySQL • HTML • CSS • Java • Bash

Libraries

Pandas • Seaborn • Numpy • NLTK
OpenCV • Matplotlib • Scikit-Learn
Tensorflow • Regex • GeoPandas
BeautifulSoup • XGBoost • D3.js

Technologies & Frameworks

Spring • SpringBoot • Azure • Postman
Cosmos DB • Maven • JIRA • Hadoop
REST API • DevOps • Confluence
MongoDB • Jupyter Notebook

MOOCS

COURSERA

- Applied Data Science with Python Specialization

(University of Michigan Ann-Arbor)

- Big Data Specialization

(UC San Diego)

- Data Structures and Algorithms Specialization

(UC San Diego)

UDEMY

- Python for Data Science and Machine Learning
- Machine Learning A-Z™: Hands-On Python & R In Data Science
- Python and Django Full Stack Web Developer Bootcamp

EXPERIENCE

JAVA DEVELOPER | TATA CONSULTANCY SERVICES

Aug 2021 - Aug 2022 | New Delhi, INDIA

- Reduced codebase bugs by 20% through implementing new features, solving bugs, and testing new code
- Maintained a code coverage level of 85% through testing existing code and writing new JUnit test cases
- Improved on-boarding efficiency by 33% by streamlining the on-boarding procedure for new team members

EMBEDDED SYSTEMS AND ROBOTICS TRAINEE | TECH EXPLICA

June 2019 - Aug 2019 | New Delhi, INDIA

- Worked on Arduino UNO and AVR Microcontroller projects
- Assembled and configured an Obstacle Avoiding Robot
- Created smart appliances using *Internet of Things* technologies, including an Automated Alarm System, Motion Activated Lighting System, and Remote Controlled Room Freshener
- Researched about the RFID Cards currently deployed by Indian Railways to track railroad cars

PROJECTS

AGE AND GENDER CLASSIFIER

- Led a team of 3 members to develop a Haar-cascade and CNN based Age and Gender classifier with GUI deployment, using OpenCV
- Improved classification accuracy from 60% to 85%, with the classifier working on still images, videos, and live feeds
- Utilized pre-trained models and tested the classifier on live feed and stock images

CHICAGO TRAFFIC CRASHES ANALYSIS

- Developed a website that provides data visualization of traffic crashes in Chicago for 2021 using Python, JavaScript, HTML, and CSS
- The website contains interactive spatial and temporal plots to help users explore and analyze the data

FIFA WORLD CUP CHATBOT

- Developed a chatbot using NLTK that analyses user sentiment towards FIFA World Cup 2022 and summarizes it
- The bot interacts with user through several steps of dialogue, asking about their favorite team and confidence level in its chances

RICHTER'S PREDICTOR: MODELLING EARTHQUAKE DAMAGE

- Classification model to group housing structures based on their susceptibility to earthquake damage
- Achieved a micro-averaged F1 score of 0.7501
- This model is currently in the Top 2% of over 5600 submissions

FACEBOOK AD ANALYTICS

- Created visualizations and used statistical techniques to analyze a FaceBook Ad campaign
- Suggested micro and macro strategies to maximize outreach and increase profit