**SAMUJJWAAL DEY**

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| Contact No.: +1 312 975 4411 | E-mail : [sdey9@uic.edu](mailto:sdey9@uic.edu) |
| LinkedIn : [linkedin.com/in/samujjwaal/](https://www.linkedin.com/in/samujjwaal/) | GitHub: <https://github.com/samujjwaal> |

**SUMMARY**

Graduate Computer Science Student actively looking for Summer 2020 Internship opportunities

**EDUCATION**

**University of Illinois at Chicago, Illinois** Expected May 2021

**Master of Science in Computer Science**  GPA: 3.42/4

**University of Mumbai (VESIT)**, **India** Jul 2015 – Jun 2019

**Bachelor of Engineering in Computer Engineering** CGPA: 8.40/10

**TECHNICAL SKILLS**

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| **Proficient:** | Python, Java, numpy, pandas, nltk, sklearn, matplotlib, D3.js, Three.js, HTML, CSS, JavaScript, MySQL, Git, Azure ML Studio, |
| **Familiar:** | R, PHP, C++, Scala, LabVIEW |

**ACADEMIC PROJECTS**

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| **Web Search Engine on UIC Domain** (Python, nltk, beautifulsoup4, Jupyter)  Web search engine to retrieve most relevant webpages for user search query, from webpages crawled on the UIC domain | https://git.io/Jf2bm |
| **Design Pattern generator IntelliJ plugin** (Java, JavaPoet, Gradle, IntelliJ Platform SDK)  Object-oriented design and implementation of an IntelliJ Plugin for a Design Pattern Code Generator with a type name clash checking functionality | https://git.io/JfO6O |
| **Design Pattern Generator** (Java, JavaPoet, sbt)  Object-oriented design and implementation of a Design Pattern Code Generator | https://git.io/JfO6B |
| **Vector Space Retrieval Model on Cranfield corpus** (Python, nltk, Jupyter)  Implementing Vector Space Retrieval Model using TF-IDF and cosine similarity | https://git.io/JfO6R |
| **Text Processing of CiteSeer corpus** (Python, nltk, Jupyter)  Tokenizing text and determining the word frequencies for all the words in the collection | https://git.io/JfO60 |
| **Spam Email Classifier** (Python, sklearn, matplotlib, Jupyter)  Machine Learning Model to classify emails as spam or non-spam | https://git.io/JfO6u |
| **US Election Data Exploration and Modelling** (Python, sklearn, matplotlib, Jupyter)  Data Modelling on 2016 US Election Data and US Demographic Data. Creating regression, classification, and clustering models. | https://git.io/JfO6z |
| **Visualizing fluid-particle flow** (Javascript, HTML, Three.js, D3.js)  Visualizing a computational fluid flow dataset from the San Diego Supercomputing Center | https://git.io/JfO62 |
| **Visualizing Radiation Therapy Plan Data** (Javascript, HTML, Three.js, D3.js)  Identifying Similarities and Dissimilarities between UIC/MDACC RT Plan Data | https://git.io/JfO6a |
| **Water Catchment Control** (Python, Folium, Flask, Azure ML Studio)  A system to predict if a region is a drought-prone area using its climatic parameters from APIs | https://git.io/JfO6V |

**INTERNSHIP EXPERIENCE**

**Summer Project Trainee, Bhabha Atomic Research Centre, India May 2018 – Jul 2018**Radiation and Photochemistry Division

* Developed a Data Acquisition system using LabVIEW for a Low-Temperature Measurement setup
* Converted existing LabWindows code for nano voltmeter, milliammeter and current source into LabVIEW code   
  to make operations faster and help scientists record more precise observations
* Designed a common control dashboard for the instruments using LabVIEW

**Team Member & Leader, AIESEC Navi Mumbai, India Jul 2016 – Aug 2017**

Operations Incoming Global Volunteers

* Conducted Skype interviews to select potential international volunteers for a Mumbai based Women Empowerment NGO
* Kept track of International Relations with AIESEC local chapters of other nations

**Junior Data Analyst Intern, Nuclei Technologies, India Jun 2016 – Jul 2016**

* Received hands-on training on R and studied various data collection and data preparation methods
* Researched how to develop a stock market prediction model on R

**Catchment Control and Water Supply Management Jul 2018 – Apr 2019**  
Final Year Project, VESIT

* Implemented a system to predict if a region is a drought-prone area using its climatic parameters viz. rainfall, groundwater level, temperature, humidity, and soil type and suggest suitable catchment areas for it
* Used Azure ML Studio to train the machine learning model, deployed it using an API key and developed a Folium based Python web app to display results
* Performed a comparative study of ML algorithms to determine the most optimal for this use case.
* Received $15,000 funding from Microsoft & National Geographic under AI for Earth Grants scheme
* Presented IEEE paper “Water Catchment Control and Management” at ICICT 2018

**Electricity Consumption and Home Automation Aug 2017 – Mar 2018**

Third Year Project, VESIT

* Implemented a web application to help users monitor their domestic electricity consumption to check against faulty power bills and power thefts in India
* Designed a dashboard UI using HTML, CSS, and JavaScript for users to visualize the power consumption of their appliances and proposed a new format for a power bill
* Received Minor Research Grant under domains of Machine Learning and Internet of Things from the University of Mumbai
* Presented Springer paper “Interactive Electricity Consumption System” at SSIC 2019 and IEEE paper “Interactive Electricity Consumption Analysis System” at ICICT 2018

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