**Akshay Bapat**

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# EDUCATION

**University of Illinois Urbana – Champaign** **Expected Grad:** **May 2023** Bachelor of Science, Computer Engineering (Data Science Specialization)

Minors: Business Analytics

# TECHNICAL SKILLS

**Languages:** Python, C , C++, SQL, HTML/CSS, Django, React, PHP, JavaScript

**Technologies/Frameworks:** Pandas, NumPy, Jupiter Notebooks, Databricks (PySpark, SparkSQL), Tableau, Bootstrap

# WORK EXPERIENCE

**PriceWaterhouseCooper |** Incoming Start Intern **- NYC, NY June 2021-Aug. 2021**

**Gramaner |** Junior Data Analyst  **- Princeton, NJ Nov. 2020 – May 2021**

* Developed Script that formats Gramaner live data and dynamically creates report sheets visualizing said data for non-technical users.
* Created **Python** script to implement geospatial data involving **Array DBMS** utilizing **Geopandas** for data manipulation and visualization in **JavaScript**

**Instahub |** Data Science Intern - **Philadelphia, PA May 2020 – Aug. 2020**

* Team of 10 intern project involving product efficiency improvement and lifecycle Analysis of SoLAR device. Analyzed material sustainability through data extraction of material wear over time and implemented end of life process strategy with manufacturer.
* **Python** Algorithm extracting SQL database of New York, New Jersey, Pennsylvania statewide energy and resources utilization of 40,000 buildings for smart building operations. Cleaned data through performance metric using **Tableau** performed data modeling to pull 30,000+ potential clientele for Instahub.

**EV Concept Car |** Engineer - **Champaign, IL Sept. 2019-Present**

* Improved PCB and PWC design cost for vehicle main dashboard by 25%. Worked on decreasing material usage for silkscreen and PCB stackups using **CAD** software accounting for Blind and Buried vias.

**Medium – Towards Data Science Remote**

Writer July 2020 – Present

* Published data science articles in the premier publication (440k+ followers) website for data science enrichment.
* Writing a blog to help educate new coders in Data Science on various Data Science methodologies and perspectives.

# PERSONAL PROJECTS

**Airlines** – Python (Pandas/NumPy/Matplotlib), Tensorflow

* Designed a policy-based, stochastic Reinforcement Learning (RL) algorithm that uses a dataset of Twitter Posts on various airlines. Built from scratch in Jupyter Notebook the program cleans the data and provides a sentiment analysis
* Improved sentiment analysis using BERT transformer architecture for NLP and improved accuracy by training AI agent through 3 epochs

**Online Chat Server**– Django, React

* Implemented asynchronous style chat server utilizing channels using **Django** for routing protocols and database access.
* Improved Channel Layers framework using **Redis** supporting single and sharded connections. Utilized **sqlite3** tests to ensure message reliability.

**Crime Analytics** – Python (Pandas/BeautifulSoup, Numpy, Matplotlib), Leaflet

* Scraped NYC 100+ Precinct data by borough by analyzing website **HTML** format and using **BeautifulSoup** to pull data files.
* Cleaned data (3200+ rows) and aggregated crime statistics based on location, time of month, using **Pandas’** operations.
* Conducted Data Modeling using **Matplotlib** and visual representation on JavaScript DOM element **leaflet** map

**Pong Game** – Python

* Implemented Python based Paddle Pong Game allowing user-based control actions. Utilized a s

# LEADERSHIP

**STEP For a Better Nonprofit-** President December 2019 – Present

* Youth activism towards by fusing technology with societal issues decreasing poverty and raising awareness in surrounded underprivileged communities.
* Revamped website architecture using HTML &/CSS with responsive layout, parallax, and back-end messaging

**AWARDS/HONORS:** Coursera Financial Markets Cert., Coursera Data Science Fundamentals Cert., UIUC Dean’s List