ABHISHEK KUMAR

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EDUCATION

- **Illinois Institute of Technology, Chicago, Illinois**   **Jan 2021 – Dec 2022**
  Master of Computer Science

- **University of Petroleum and Energy Studies, Dehradun, India**   **Jun 2013 – Jun 2017**
  Bachelor of Technology, Computer Engineering

SKILLS

- **Languages**   **:** Python, Shell Scripting, Java, JavaScript, C
- **Web Technologies**   **:** Streamlit, Flask, Django, HTML5, CSS3, FastAPI , RESTful API, Bootstrap, Node.js
- **Databases**   **:** PostgreSQL, MySQL, SQLite, MongoDB, Google Firebase
- **Libraries and Tools** **:** Scikit-learn, NumPy, Pandas, Jupyter Notebook, PyCharm, Linux, PowerBI, Tableau
- **Cloud**   **:** AWS, Apache Hive, PySpark, Gitlab, Git

PROFESSIONAL EXPERIENCE

Automation Analyst Intern   **Jan 2022 – Dec 2022**
CCC Intelligent Solutions   *Chicago, Illinois*
- Developed audit dashboard using **Python, FastAPI, and MongoDB** to provide all domains, server patches, and generate user access list for infrastructure team to audit, and reduced time to prepare reports by 40%
- Designed CARES task board using **Power BI, Streamlit** to monitor data and generate ad-hoc reports to provide meaningful insights
- Built services to automate and analyze rapid incidents through supervised model to streamline data and increase efficiency by 5%

Software Developer   **Jul 2017 – Apr 2020**
Must Discover Private Limited   *Greater Noida, India*
- Developed and delivered internal dashboard for automation and monitoring of critical processes using **Python**, **Rest APIs**, and Node.js for over 80 clients, and increased client retention by 41%
- Collaborated with Data Science team to predict customers behavior on re-purchasing products using **PySpark**, **Flask, and SQLite** leading to 60% accuracy in targeted marketing campaigns
- Spearheaded product design for web application and integrated user authentication using Firebase
- Optimized user experience for high traffic and usability with **MongoDB and Django** to improve application performance by 33%

Android Developer Intern   **May 2016 – Jul 2016**
Nuriss Lifecare Private Limited   *New Delhi, India*
- Designed and implemented an e-commerce android application for medical representatives and pharmacies
- Customized medicine inventory and orders using List View and Navigation drawers which increases customer engagement by 35%
- Integrated Google Ads and user login portal using Firebase Database for real-time storing and user authentication

PROJECTS

Route Planning Algorithm | (GitHub)   **Feb 2022 – Mar 2022**
- Developed and optimized the **A* Search Algorithm** to design Google Maps-inspired route planning algorithm
- Established search strategy for 4 maps enabled discovery of the shortest path while expanding minimum number of possibilities

COVID-19 Text Analysis and Classification with NLP | (GitHub)   **Sep 2021 – Dec 2021**
- Manually labeled a set of 300+ texts using Light Tag and reflected on the process of annotating data used to train the NLP model
- Performed bag of words classifiers, and built text categorization model with feature engineering and got an efficiency of 85%
- Worked on **Gaussian Naïve Bayes, Random Forest,** and **TF-IDF Vectorizer** which affected the performance of the models

Movie Recommendation Content-Based Filtering | (GitHub)   **May 2021 – Jul 2021**
- Built a recommender system to recommend movies depending on user-selected movie features such as genre, rating, etc.
- Deployed web application using **Python and Heroku,** and used **TMDB RestAPI** to retrieve from data set of 45000+ movies

Weather Android Application | (GitHub)   **Apr 2021 – May 2021**
- Implemented an Android application to display variety of weather data for a specified location such as 48 hours hourly forecast
- Used Visual Crossing Web API to fetch data asynchronously and render view to display daily forecast for next 15 days

Illinois Open Cafeteria | (GitHub)   **Jan 2021 – Mar 2021**
- Enforced unsupervised machine learning algorithm using **K-means Clustering** in Python and applied **folium library** to render map
- Grouped together three different clusters and projected location on map which recommends where to open new café in suburbs

CERTIFICATIONS

- **Nano Degree** in Data Structure and Algorithm, Udacity
- **Tableau Desktop Specialist**, Tableau