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, Excel, NumPy, Pandas, Jupyter Notebook, PyCharm, Linux, PowerBI, Tableau
- **Cloud**   **:** AWS EC2, S3, Lambda, CloudWatch, Airflow, Apache Kafka, Docker, PySpark, Git, GitLab

PROFESSIONAL EXPERIENCE

Automation Analyst Intern   Jan 2022 – Dec 2022
CCC Intelligent Solutions   *Chicago, Illinois*

- Developed CARES dashboard utilizing **Streamlit, FastAPI, and MongoDB** to provide all domains, server patches, and generate user access lists for infrastructure team to audit, and reduced time to prepare reports by 40%
- Designed audit task board using **Python** 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 web application for automation and monitoring of critical processes using **Python**, **Rest APIs**, and **Flask** 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**, **Scikit-learn,** and **SQLite** leading to 60% increase in targeted marketing campaigns
- Spearheaded product design for web application and integrated **microservices** using Node.js and Python in **AWS Lambda, EC2**
- Optimized user experience for high traffic and usability with **NGINX and Gunicorn** 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 employing Firebase Database to store and sync data for user authentication

PROJECTS

Real-Time Stock Market Analysis using Kafka | (GitHub)   May 2022 – June 2022

- Utilized Python, **Kafka**, and **AWS Glue** to create a data pipeline for collecting, processing, and storing real-time stock market data
- Applied AWS QuickSight to provide real-time data visualization insights on stock market data of 100+ companies

COVID-19 Live Tweet Analyzer | (GitHub)   Sep 2021 – Dec 2021

- Analyzed live tweets by generating data pipelines and used **Kafka** for tweet ingestion, and **PySpark** for analysis
- Performed bag of words classifiers, and created 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 with data preprocessing functions and **ETL** pipelines using **Airflow** to find movies using genres 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
- Streamlined Visual Crossing Web API to fetch data asynchronously and render view to display daily forecast for next 15 days

Route Planning Algorithm | (GitHub)   Jan 2021 – Mar 2021

- Developed and optimized the **A* Search Algorithm** to design Google Maps-inspired route planning algorithms
- Established search strategy for 4 maps enabled discovery of the shortest path while expanding minimum number of possibilities

CERTIFICATIONS

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