

ABHISHEK KUMAR

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SUMMARY

Computer Science Graduate student and Teaching Assistant for Database Organization at Illinois Institute of Technology, earnest about software development, data science, and machine learning with proficiency in Object-oriented programming. Proven ability to leverage strong development skills with a focus on collaboration, communication, and creativity within a progressive organization.

EDUCATION

- Illinois Institute of Technology, Chicago, IL** **Jan 2021 – Present**
Master of Computer Science Grade – 4.00 / 4.00
- University of Petroleum and Energy Studies, Dehradun, India** **Jun 2013 – Jun 2017**
Bachelor of Technology, Computer Engineering

SKILLS

- Programming Languages** : Python, JavaScript, Java, C, Data Structure, Machine Learning Algorithms, Kotlin
- Web Technologies** : Django, Flask, HTML5, CSS3, REST APIs, Bootstrap, Android SDK, Git, JIRA
- Storages** : PostgreSQL, MySQL, SQLite, Apache Spark, NoSQL, MongoDB, Firebase
- Packages and Tools** : Scikit-learn, NumPy, Pandas, Matplotlib, Tableau, PyCharm, Android Studio, VirtualBox, Linux
- Cloud** : Amazon Web Services, Apache Hive

PROFESSIONAL EXPERIENCE

Illinois Institute of Technology **Chicago, Illinois**
Graduate Teaching Assistant **Sep 2021 – Present**

- Assisting faculty in teaching and planning course content of Database Organization for undergraduate students
- Holding Teaching Assistant office hours for students seeking assistance in SQL, Relational Schema, and course projects

MUSTDISCOVER Private Limited **Greater Noida, India**
Software Developer (Feb 2018 – Apr 2020) | Graduate Engineer Trainee (July 2017 – Feb 2018) **Jul 2017 – Apr 2020**

- Designed and delivered internal dashboard for over 80 clients to leverage historical data for comparison between consumer portfolios that increased client retention by 41%
- Collaborated with Data Science Team to predict customers behavior on re-purchasing products using **Python, Flask and SQLite** leading to 60% accuracy in targeted marketing campaigns
- Spearheaded product design for e-commerce application with integrated features and collaborated closely with cross functional teams by following agile methodology led to optimize product roll time by 25%
- Upgraded UI features, database and login module with **MongoDB and Django** to improve application performance by 33%
- Redesigned mobile UI for android application and integrated third party libraries including Facebook and Google APIs

NURISS LIFECARE Private Limited **New Delhi, India**
Android Developer Intern **May 2016 – Jul 2016**

- Designed and developed application for medical representative to report meetings with doctors
- Customized product section using List View and Navigation drawers which increases customer engagement by 35%
- Integrated Google Map API and user login portal using Firebase Database for real time storing and accessing data

PROJECTS

Movie Recommendation Content Based Filtering **Jun 2021 – Aug 2021**

- Built content-based filtering model using **Counter Vectorizer and TFID algorithm** that recommend from dataset of 45,000+ movies
- Deployed live project on **Heroku** using **Python and Flask** app, also used **REST APIs** to retrieve cast cards, reviews, and movies

Illinois Open Cafeteria **Mar 2021 – May 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 recommend where to open new café

Credit Card Fraud Detection **Dec 2020 – Feb 2021**

- Optimized fraud detection by using **Isolation Forest** algorithm Python on highly imbalance dataset of credit card transactions which resulted in 99.74% of accuracy compared to 93.4 % from **Linear Regression**

Self-Hosted Secure File Storage System **Jan 2017 – Apr 2017**

- Developed infrastructure for server where application can encrypt, decrypt, and read file saved on the file system using **Meteor.js**.

CERTIFICATIONS

- Nano Degree in Data Structure and Algorithm **Udacity** **Sep 2021**
- Machine Learning A-Z Hands on Python **Udemy** **Aug 2021**
- Data Analysis using Python **Coursera** **May 2021**