AKSHAY SAXENA

Email: akshay.004@outlook.com

TECHNICAL SKILLS

- Programming and scripting languages: Python, JavaScript, SQL, R, Hive, C, C++

- Technologies: Microsoft Power BI, Hadoop, Qgis, ArcGIS, ASP.NET, Amazon AWS cloud services, Cisco Packet Tracer and networking, Mongo dB, Tomcat, IBM Watson assistant, JIRA, PhpMyAdmin, Atlassian

- Testing and Automation: Selenium and CI/CD pipeline in jetkins

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PROFESSIONAL EXPERIENCE

Market Research Interviewer   January 2022-Present
The Logit Group, Canada

- Conduct surveys via softphone in various regions of United States and Canada
- Acquired effective communication skills and phone etiquette
- Learnt time management and improved concentration

Global Associate   June 2021-November 2021
VNC, Vadodara, India

- Developed and designed financial reports for the client companies in Microsoft Power BI
- Understand the functioning of APIs of various platforms such as Shopify, XERO, QuickBooks, and data from SQL server for mapping the tabular data into optimal data models.
- Performed data model optimizations by reducing data redundancies, modifying tabular relationships such as many to many as per requirements and Extract Transform Load tasks
- Designed report components in Adobe spark, Canva and other designing tools.
- Handled test cases and calculations of the financial reports as required by the clients

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ACADEMIC EXPERIENCE

GIS Project   January 2022-March 2022
Fredericton, NB, Canada

- Developed web site using MS visual code studio for city of Fredericton to visualize the road safety near places of interest such as schools and hospitals. Project URL: https://akshayscrkiddie.github.io/GIS-Project
- Worked on ArcGIS Pro to perform vector data analysis and map generation using spatial operations such buffers, features selection and layer calculations
- Export the map layouts with appropriate scale, grids, legend and north. Also, export the KMLs and prepare data model to automate the tasks in ArcGIS

Audio Pattern Recognition system   January 2021-May 2021
Ganpat University, Ahmedabad, India

- The project is assigned by IBM instructor, develop machine learning model to classify .wav audio files specifically into 5 classes i.e., dog bark, drilling, glass breaking, gunshot and jackhammer using MFCCs as the features
- The project has applications in crime analysis, Convolutional neural network (CNN) model is used to build the classifier utilizing thousands of audio files to learn and recognize the audio patterns
- Build web application to utilize the machine learning model using flask library in python and store the user information provided at the time of registration on the web application in SQL database

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(LinkedIn) https://www.linkedin.com/in/akshay-saxena-3a838b180/, (Website) https://akshayscrkiddie.github.io/Website/

Remote Sensing Intern   January 2021-May 2021

BISAG-N, Gandhinagar, India

- Developed web application for change detection over the years using Sentinel-2 satellite data in Qgis, HTML, Open Layers, GeoServer and PostgreSQL
- Perform object Classification such as identify water bodies, vegetation and man-made structures using random forest technique in R and plugins available in Qgis
- Understand various operations performed on raster data to obtain the results and storing the output data using SQL expressions

Voluntary work

Vadodara, India

- Tutor toddlers in nursery to grade 8 various essential subjects
- Teach the kids ethics, responsibilities, and hygiene manners
- Acquire Societal Internship certificate from Change Vadodara Campaign

EDUCATION

Master of Engineering in Geodesy and Geomatics Engineering   September 2021-Present

University of New Brunswick Fredericton, Fredericton, Canada

Bachelor of Technology in Computer Science and Engineering (Big Data Analytics)

Ganpat University Ahmedabad, India   August 2017-May 2021

ACHIEVEMENTS AND CERTIFICATES

- IBM certified data engineer
- Winner of Ideation organized by Indian Institute of Technology Gandhinagar, India
- Runner up at university level soccer tournament
- Runner up at university level chess tournament

OTHER PROJECTS

- Creating knowledge graph from twitter data using **spark** and **neo4js**
- **IBM Watson chatbots** like restaurant booking, university courses layout and registration
- Electricity distribution and variances in states of India using **QGIS**
- Sentiment analysis of tweets to determine India general election polls using tweepy, pandas and text blob libraries in **python**
- Real time chat application using **node js** and **mongo dB** with signup and login module in **php, HTML, CSS, JS**
- Cricket Store Management system in **C++**
- Telephone billing system in **C**