AADARSHA CHAPAGAIN

3659948643
aadarshachapagain@gmail.com
https://www.linkedin.com/in/aadarsha-chapagain-759532113/
Brampton ON

Experience

Lambton College Mississauga, Big Data Analytics   *September 2021 – Present*

- Performed Data analysis and visualization on Ontario Covid Outbreak Dataset with python pandas, matplotlib, Seaborn
- Performed Data mining from twitter with Flume on top of Hadoop architecture.
- Performed sentiment Analysis on twitter data with pandas, tweepy, codecs, RapidAPI
- Built Apache Spark clusters to run on Amazon EMR
- Used Pig to perform analysis on the UCI Machine Learning Repository flag data set
- Parsed XML data in hive using XML serde and exported that data using Sqoop
- Utilized Tableau, PoweBI and Ms SQL Server for Visualization and analysis
- Utilized OOP concept with python and implemented TFID, Bag of words.
- Completed Certifications on SQL programming, MSSQL server, Data warehouse SQL, Machine Learning with python, Program Database with Transact SQL, Applied Machine Learning algorithms, on LinkedIn Learning.

Accessible ICT   *January 2021 – Present*

- Analyzed user requirements and created technical specifications with Miro, Jira and Adobe.
- Wrote and test code, refined and rewrote it as necessary and communicate with any programmers involved in the project, (Unit testing, API testing, performance testing)
- Maintained systems and   corrected software defects by monitoring error logs and resource utilization metrics such CPU, memory, and disk usage
- Built, deployed, and maintained production infrastructure and services and staging environments with PM2 for NodeJS, Heroku for Django, aapanel, git, Webhooks, AWS EC2, LightSail, RDS, AWS SES, AWS S3, Google Maps, Docker
- Consulted clients and colleagues concerning the maintenance and performance of software systems, with a view to writing or modifying current operating systems with Microsoft Teams. Google Meet, Skype for Business
- Investigated new technologies and continually updated technical knowledge and skills by attending in-house and external courses, reading documentation, manuals, guidelines and accessing new applications
- Deployed software updates, fixes and patches as per need of the system
- Wrote systems to control the scheduling of jobs or to control the access allowed to users or remote systems with cron Jobs and Apache Air flow
- Monitoring, troubleshooting and capacity planning of cloud platforms
- Implemented automation tools and frameworks (CI/CD pipelines)
- Present the deliverables and achieved milestones to the clients and other concerned parties with PowerPoint Presentations and live Demos

Code For Core Innovations *December 2018 – January 2021*

- Analyzed and organized and cleansed raw data obtained from external source (Excel)
- Built Data models and Pipelines and API to communicate with other web applications
- Conducted data analysis and reports on result with python, Jupyter Notebook, Power BI Tableau and JavaScript frameworks Echarts , chart.js

- Performed Data cleansing and Validation with python and SQL
- Collaborated with Data Scientists and statistician on several projects
- Built Web Applications with MVC frameworks, Django(python) and flask(python)
- Worked with CSS, HTML, and JavaScript, along with jQuery, bootstrap to craft client-facing platforms
- Managed databases SQL, NO SQL, and servers with aapanel for Django and Flask, PhpMyAdmin, Apache, XAMP, MAMP, WAMP, LAMP
- Coding for functionality across multiple languages and platforms Laravel with PHP, Python with Flask and Django
- Communicated with specialized developers and the graphic design team to deliver the best possible product with Slack, Trello, Jira, Microsoft Teams, Skype, Telegram
- Kept up with emerging technology that may serve the business' needs
- Prototyped minimal viable products for communication with company stakeholders
- Meeting both technical and consumer needs.
- Designed databases and developed APIs after ER modeling and use Case diagrams with draw.io, Postman and thunder client.
- Assessed the efficiency and speed of current applications and error log analysis
- Managed production and staging environment with Digital Ocean, AWS EC2, RDS, S3 GitHub, GitLab, Nginx
- Quality Testing, API testing with Postman and Unit Testing

W3 Developers   *October 2016 – November 2018*

- Assisted the web development team with all aspects of website and application design.
- Assisted with the testing and maintenance of backend and front-end applications built with php Laravel, HTML, CSS, JavaScript, Bootstrap, jQuery and vuejs.
- Brainstorming new tech applications such as digital storage and mobile technology.
- Collaborated with developers to implement new web features.
- Kept up to date with the latest technology and programming trends.
- Converted video, audio, written, and graphic components into compatible formats for the web.
- Used user feedback to identify and correct problems with a client's website.

Projects

Tender Build Link
[Web Application to manage Construction project starting from tender to all the way to payments]
Tools: Jira, GitHub, Miro, Pm2, AWS ec2, Nodejs, Django, aapanel, Express, MongoDB, Postman, Git
Responsibilities:
- Followed Whimsical design to create the database model and API
- Developed Rest API with Nodejs, Express and MongoDB
- Collaborated with frontend team and client to produce expected result
- Setup Staging environment to show case updates and changes to client
- Integrated microservices and third-party API
- Generated Test Data for Performance Testing
- Performed User Testing and Tracking, Planning and Visualization with Miro
- Used PM2 with git for continuous Integration and Development
- Monitoring, troubleshooting and capacity planning of Staging and Production Environment
- Developed/maintained processes, tools, and documentation

Railway Recruitment Link
[Portal For collecting the online application for hiring done by National Railway Department During Covid]
Tools: SQL, Python, Git
Responsibilities:
- Validated the application data using SQL and python
- Validation would mostly rely on the presence and absence of required document their readability
- Prepared the data of the applicants who have submitted all the relevant documents and uploaded the payment slip.

- Cleaned and application data and made it ready for analysis and visualized data

Go Buddy Go [Link]

(Web Application for Collecting Hotel Data from Hotels and room availability for booking and reservations)
Tools: Django, Flask, SQL, Aapanel, Heroku, Mongo, Apache Airflow, Postman, Git
Responsibilities

- Designed and Developed Database models and Entity relationship diagram
- Developed Use Case Diagram with Draw.io
- Developed User Interface with Django Templates and changed Admin Templates
- Developed and Tested API with Rest Framework (DRF) and Postman
- Performed Versioning and Update Release, built test Data for performance testing

Hamro Swasthya [Link]

[Web and mobile application portal for Covid Data Visualization for Government of Nepal]
Tools: SQL, Draw.io, phpMyadmin, python, Django, PostMan, Git
Responsibilities:

- Performed Entity relationship modeling
- Designed Database to reflect user interface
- Updated and managed Database
- Developed and Tested API with Rest Framework and Postman
- Cleaned Data and Transformed for Visualization
- Performed Data Visualization to achieve useful insights

National news Site [Link]

[News portal Owned and managed by Government of Nepal]
Tools: SQL, Draw.io, phpMyAdmin, Laravel, PostMan, Git
Responsibilities:

- Carried out Entity relationship modeling and documentation
- Designed Database to reflect the user interface
- Optimized Query and Database tuning to increase the performance
- Incorporated updates and changes in Database without affecting the production environment
- Developed and performed API testing with Postman
- Performed Microservices and third-party API integration

Skills

- Language: C, Python, PHP, Spark, Java, Scala, Pig, HTML, CSS, JavaScript
- Libraries: Pandas, NumPy, ML
- Frameworks: Hadoop, HDFS, Mapreduce2, Yarn, Name Node, Data Node, Ambari, Sqoop, Kafka, Zookeeper PowerBI, Tableau, Django,Flask,PIP, Nginx, Heroku, Laravel, Node, Express, PM2, Jira, jQuery, JSON, AJAX, Bootstrap, GraphQL,
- Cloud: AWS EC2, RDS, EBS, EMR, GCP
- Database: SQL, Mongo, Hive, Cassandra, Big Query
- Systems: Windows (XP/2000/2003, 7, 8, 8.1, 10), UNIX, Linux, Centos, Macintosh
- CI/CD: Gitlab, GitHub, Webhooks

Education

- Post Graduate Big Data Analytics Lambton College Mississauga.
  (2021-2023)
- Bachelor's in computer science & Information Technology, Tribhuvan University.
  (2014-2018)

Awards

Jury Mention ICT AWARD (2020)
This award was granted to Hamro Swasthya (official Covid 19 App by Ministry of health and population). Hamro Swasthya is a crisis management web and mobile portal to disseminate information regarding the Covid -19 victims

Contribution: Database Design and Maintenance

The FR. Charles A law S.J. Memorial Award (2018) St. Xavier's College Maitighar
For Excellence in Social and Environmental Responsibility