Shashank Chauhan

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Profile Summary

I am a highly motivated and accomplished Computer Science and Data Analytics professional, with a strong educational background and diverse technical expertise. Hands-on experience in the design and development of the Connect Cloud platform. Proven track record in leading projects to develop Python connector for the connect cloud platform, ensuring seamless interaction through PEP 249. Looking forward for opportunities to leverage my skills and experience to contribute to innovative projects in the fields of software development and data analytics.

Education

Galgotias University   2018 - 2022
- Bachelor of Technology in Computer Science & Engineering with specialization in Data Analytics | **CGPA: 9/10**
- **Specialization Coursework:** Data Visualization, Cloud Computing and Virtualization, Business Intelligence, Big Data Analytics, Data Mining, and Cloud as PaaS & SaaS.

Class XIIth   2016 - 2017
- UP Board **| Percentage – 83%**

Class X[th]   2014 - 2015
- UP Board **| Percentage – 84%**

Technical Skills

- **Programming Languages:** Proficient in Python, Java, C#, C++, JavaScript, ReactJS, NodeJS, HTML, and CSS.
- **Databases:** Experienced with MySQL, MongoDB, Neo4j, Redis, DynamoDB, and Postgres.
- **Visualization Tools:** Skilled in using Quick Sight, Tableau, Power BI, Looker, and Azure Data Factory for data visualization and business intelligence.
- **Development Tools:** Proficient in Visual Studio Code, DB Visualizer, Visual Studio, PyCharm, Notepad++, and DBeaver for software development.
- **Machine Learning Libraries:** Proficient in NumPy, Pandas, PySpark, TensorFlow, Pytorch, Scikit-learn, NLTK, OpenNLP, and TensorBoard for machine learning and data analysis.
- **Version Control and DevOps:** Experienced in using Git for version control, Shell scripting, Docker, Kubernetes, and Azure DevOps for DevOps processes.
- **Testing Frameworks:** Competent in using XUnit, NUnit, Selenium, and Pytest for software testing and quality assurance.
- **Web Development:** Proficient in web development with experience in React, HTML, CSS, and JavaScript.
- **Database Management:** Skilled in database management, query optimization, and data modeling.
- **Project Management:** Experienced in Agile development methodologies for project management

Experience

CData Software Pvt. Ltd. – Software Development Engineer - I   Apr 2022 – Present
Project - II
- Designed and developed the front-end and back-end of the following features of Connect Cloud Platform:
  - **Async Query Processing –** This feature is the pivotal component of Connect Cloud Platform which revolutionizes query execution by adopting an asynchronous approach. Instead of blocking for results, it returns a token immediately, acting as a placeholder for results until they're received from the database. The asynchronous query execution approach enhances scalability and resource efficiency, ensuring rapid response to dynamic resource demands and cost-effective concurrent processing, which are integral to the platform's growth and performance optimization.
  - **API Connector –** It offers seamless and customizable connections to a wide range of APIs. It allows users to connect to proprietary endpoints, filter relevant data, execute queries, and manage user access directly from the Connect Cloud platform. With this connector, users can effortlessly blend data across internal and external systems without the need for extensive IT or development involvement.
  - **Datasets –** This feature allows users to create collections of tables, views, and derived views. Customers can easily browse their connections and select the specific tables or views they want to include in a dataset. These datasets

are organized within workspaces and folders, and they are referenced by an alias based on their organizational structure, making it efficient and intuitive for users to work with their data.

- **Technologies** – Connect Cloud, C#, .NET, React JS, Typescript, Postgres, MongoDB, xUnit, NUnit, API Development, Microservice Architecture, Agile development process.

Project - I

- Led a project of building a Python connector for the Connect Cloud platform, adhering to **PEP 249 – Python Database API Specification v2.0** where I implemented the following cursor methods: close, execute, executemany, fetchone, fetchmany, fetchall, nextset; which allows seamless interaction with the Connect Cloud using the exposed APIs.
- **Technologies** – Connect Cloud, Python, SQL Server, MySQL, Pytest.

Kameda Infologics Pvt. Ltd. –Software Engineer Intern   Aug 2021 - Feb 2022

- Engaged as a front-end developer on the YASASII project, which is a healthcare portal, and implemented the features: Admin connectivity and Patient records pages.
- Tested the end-to-end working of the portal and added unit and integration tests for the portal.
- **Technologies** – NodeJS, JavaScript, HTML, CSS, Postgres, Jest.

Crazy For Success Foundation   May 2020

- One month paid internship program where I contributed on various aspects of Social Media promotions and marketing, Creative Content Writing, and Graphic designing for the organization.

APKAMART   Aug 2020 - Oct 2020

- Three-month paid internship program where I was a Creative Content Intern. I used to prepare a write-up daily on topics like social, cultural, technical, and world affairs.

Academic Projects

Integration of IoT and Blockchain Technology for Smart Cities

- Led this academic research project with a focus on enhancing the reliability and impact of smart cities. Investigated the synergy between IoT and Blockchain technologies to improve the quality of urban life using smart street lighting, smart environment, Keyless Signature Interface, and Smart Living.

Part of Speech Tagger

- Built and trained a Deep Learning Bi-LSTM model to learn word embeddings and predict POS tags corresponding to each word in the sentence in languages such as English, Spanish, and French and achieved greater than **91%** accuracy.
- Technologies – Python, TensorFlow, Keras.

Sentiment Analyzer

- Created a model Sentiment Analyzer using supervised ML algorithms such as Logistic Regression, Random Forest, Decision Trees, and SVM.
- Trained the above models on Amazon Reviews and Twitter datasets and targeted around **89%** accuracy.
- Technologies – Python, NLTK, Scikit learn, Pandas, NumPy.

Disease Prediction

- Conducted an in-depth analysis of the Heart Disease Dataset to estimate the likelihood of disease development based on symptoms and implemented ML models (K-Nearest Neighbor, Naive Bayes, Linear Regression, Decision Tree Classification, and Random Forest) for Disease Prediction and contained around **86%** accuracy.
- Technologies – Python, NLTK, Scikit learn, Pandas, NumPy.

Online Health Care System

- Engineered and worked on the front-end and back-end of a healthcare portal, which facilitates efficient and seamless management of user authentication, patient records, doctor information, laboratory data, and inventory details.
- Technologies – Python, React, MySQL, HTML, CSS.

Certifications

- Programming Fundamentals by Duke University on Coursera.
- Python Training by IIT Bombay and Python essentials and IoT by Cisco Networking Academy.
- Deep Learning 12-week Course by NPTEL.
- React Basics and Advanced React by **Meta** on Coursera.
- Full Stack Cloud Development Capstone Project by **IBM** on Coursera.

Achievements

- **Academic Excellence:** Maintained an outstanding CGPA of **9/10** throughout the Bachelor of Technology program at Galgotias University.
- **Professional Recognition:**
  - Received the **SPOT** Award from CData Software Pvt. Ltd. for exceptional performance and contributions to development of Async Query Processing in Connect Cloud.
  - Received **Excellence** award for 2023, second quarter for designing and developing a python connector for the Connect Cloud platform which increased the visibility of the product in the market leading to enhanced business revenue.
  - Received **Appreciation** from the management for completing the sprint task within 10 days against the allocated time of 15 days multiple times.
- **Academic Rank:** Achieved the **2nd rank** in the 2022 batch of Bachelor of Technology in the Computer Science & Engineering department.
- **Academic Research:** Led an academic research project on the **"Integration of IoT and Blockchain Technology for Smart Cities"** focusing on enhancing the reliability and impact of smart cities. Investigated synergy between IoT and Blockchain technologies to improve urban life.
- **Machine Learning Projects**: Successfully developed and implemented machine learning models, such as a Part of Speech Tagger, Sentiment Analyzer, and Disease Prediction models, achieving **high accuracy rates** in various datasets.
- **Internship Contributions:** Made significant contributions during internships, including front-end development, testing, and content creation for organizations such as Kameda Infologics Pvt. Ltd., Crazy for Success Foundation, and APKAMART.

Extracurricular Activities

- Author of a chapter titled "**Blockchain IoT Concepts for Smart Cities**" in CRC-Press Taylor & Francis **Blockchain and IoT Integration** book.
- Organized Web Development and Machine Learning workshops at my college.

Interests

- Playing Chess, Cricket, and board games, sketching, and reading social articles.
- Listen to tech podcasts and watch **TED Talks** about day-to-day topics and world affairs.