

Profile:

A software engineer with a robust background in software development, recently pivoted towards data science through an intensive master's program and hands-on research. Demonstrated proficiency in advanced predictive modelling, comprehensive data analytics, and cutting-edge ensemble learning methodologies.

Skills:

Technical: Python, GO, PHP, JavaScript, Java, MySQL, PostgreSQL, React JS, Dart (Flutter), Docker Containers, Git, AWS, Azure Active Directory, GCP, UML Diagrams, Agile Methodologies (Scrum), REST API, Graph QL, Data Structure, Microservices, SaaS.

Other: Quantitative and Qualitative Research, Critical Analysis, Problem Solving, Security and Assurance, and Requirement Engineering.

Education:

University of West London

London, UK.

Master of Science in Software Engineering

[NOV 2023]

Courses: Mobile Web Component Development, Advanced Topics in Software Engineering, Machine Learning, Big Data Analytics, Security Operations and Assurance.

Dissertation:

- Performed a detailed analysis for energy demand forecasting utilizing real-world energy demand data, with a particular emphasis on data quality, exploratory data analysis (EDA), and feature engineering.
- Employed and evaluated different machine learning techniques (SVR, RandomForest, Gradient Boosting, and XGBRegressor) to find best model for provided dataset.
- Enhanced model accuracy through Hyperparameter Tuning and evaluated against advanced methodologies like ARIMA and neural networks (MLP).

The University of Northampton

Northampton, UK.

Bachelor of Science (Honours) in Computing (Software Engineering)

[JUL 2018]

Dissertation:

- Developed a Convolutional Neural Network (CNN) model to solve the 9*9 Sudoku puzzle.
- Collected and analysed dataset of 1 million Sudoku puzzles and their solutions data using Python, Jupyter Notebook, and pandas to train the neural network.
- Trained the model to the accuracy of 96% and was submitted to the university as part of the dissertation.

Experience:

LightWebGroup

Kathmandu, Nepal

Project Manager

[JAN 2021 – JAN 2022]

- Led a team of developers and designers using data-driven insights to optimize project management processes, resulting in completion of projects within a time and 80% increase in company revenue.
- Collaborated with clients and stakeholders to define project requirements, scope, timelines, and budget, emphasizing the importance of data, maintaining data quality and utilizing data analytics in project goals.
- Incorporated vital libraries, frameworks, performance standards, and test-driven development guidelines through leadership of an R&D team within the backend software engineering department.

LightWebGroup

Kathmandu, Nepal

Software Engineer

[JAN 2020 – JAN 2021]

- Contributed to the development of a highly scalable, reliable, and reusable REST API built with a SaaS architecture in mind and utilizing DevOps practices, using Golang programming language.
- Involved in the entire software development lifecycle, from having requirements from the client and analysis, designing, and implementing, to testing, documenting, reviewing, deploying, setting up CI/CD pipelines and releasing code.
- Upgrading, fixing bugs, optimizing database queries, and page load speed optimization of different reselling applications like E-Commerce, Customer Management Systems (CMS), and Point of Sell Systems (POS) according to the client's requirements.

T.4.Tech

Kathmandu, Nepal

Software Developer

[JAN 2019 – DEC 2019]

- Collaborated with the National Organization (Nepal Dana Udyog Sangh) to design and develop a dynamic website.
- Implemented a content management system (CMS) to allow organization members to easily update website content, and incorporated search engine optimization (SEO) best practices.
- Throughout the project, conducted user acceptance testing and provided training and support to ensure the website met the organization's needs and requirements.