Sahil Sartaj, Software Developer

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EDUCATION

2017 — 2021

Bachelors of Technology in Computer Science and Engineering, Aliah University

Kolkata

Secured ***Distinction*** (CGPA of **8.51**/10)

I consistently secured a *top 3* ranking during my second, third, and fourth years in the Bachelor's degree program.

Relevant Courses: Data Structures, Algorithms, Operating Systems, Computer Network, Database Management, Probability & Statistics, Image Processing, Data Mining, Software Engineering, Automata Theory & Compiler Design, Artificial Intelligence & Soft Computing, Numerical Analysis & Optimization Techniques, Cloud Computing etc.

I have executed two notable academic projects, namely "Spam Message Detection System" and "Node2Vec: Scalable Feature Learning for Networks," and also published one conference paper in the International Conference on “Innovation & Sustainability,” ICIS’21 along with my professor.

PROFESSIONAL EXPERIENCE

Sep 2021

Software Engineer, Capgemini Technology Services

Bengaluru

- Worked on Agile scrum development methodology that has been followed to develop the application, weekly Sprints, Stand-up and code review meetings.
- Successfully resolved over 50 client-reported issues within SLA, maintaining a 98% customer satisfaction rate
- Utilized CRM software to track customer data, interactions, and activity, resulting in improved customer service
- Developed scripts to automate the resolution of common customer issues using UiPath tool, resulting in a 30% reduction in response time and minimizing errors during the process
- Diagnosed and analyzed software issues and customer billing problems, collaborating with cross functional teams to develop effective solutions, diagnose root causes, and implement solutions for software-related challenges
- Refactored legacy code to improve readability and maintainability
- Optimized database performance by creating and tuning stored procedures and writing SQL queries to perform database operations. Learned relational database like MySQL
- Implemented an object-relational mapping (ORM) layer using Hibernate, allowing for easy database access and manipulation
- Resolved complex technical issues by conducting thorough debugging and code analysis, enhancing application performance and stability
- Implemented a RESTful API that enabled third-party developers to integrate with the system with minimal effort
- Used different web-applications to check web logic sever topics and queues for pending messages for multiple stores worldwide that helped the team to reduce the manual efforts with a saving of long hours whenever the issue happens
- Promoted to senior software engineer within 2 years of work

ACADEMIC PROJECTS

Spam Message Detection Application

- Developed a robust application for spam message detection as a final year project.
- Utilized Python programming language and various tools including Pandas, NumPy, Seaborn, NLTK, Scikit-learn, and Decision Tree algorithm.

Research Contribution:

- Published an international conference paper titled "An Intelligent System for Spam Message Detection" based on the developed application.

Machine Learning Implementation:

- Employed diverse machine learning algorithms, achieving an impressive accuracy of 97.63% using the Random Forest Algorithm.

Advanced Lexical Analysis:

- Implemented sophisticated lexical analysis techniques, including tokenization, stop-words removal, stemming, lemmatization, and feature extraction.
- Aimed at enhancing prediction accuracy in spam message identification.

node2vec: Scalable Feature Learning for Networks

1. Implemented Node2Vec methodology to perform comprehensive feature learning across diverse biological networks, with a particular emphasis on the extraction of node embeddings within extensive viral-host Protein-Protein Interaction (PPI) networks.
2. Executed node embedding extraction procedures, specifically tailored to large-scale viral-host PPI networks, thereby underscoring the adept application of Node2Vec in elucidating intricate biological relationships.
3. Applied Node2Vec to discern and predict novel human host factors relevant to the SARS-CoV-2 virus within the SARS-CoV-2-human PPI network, thereby contributing to the understanding of host-virus interactions.
4. Significantly advanced the field by employing Node2Vec as a robust tool for feature learning in intricate biological frameworks, particularly within the domain of viral-host interactions.

CONFERENCE PAPER

An Intelligent System for Spam Message Detection

Sartaj, S., Mollah, A.F. (2021). An Intelligent System for Spam Message Detection. In: Sheth, A., Sinhal, A., Shrivastava, A., Pandey, A.K. (eds) Intelligent Systems. Algorithms for Intelligent Systems. Springer, Singapore. *https://doi.org/10.1007/978-981-16-2248-9_37*

SKILLS

Python	Java
SQL	MySQL
Machine Learning Algorithms	Spring
Analytical Statistics	Spring Boot
Pandas	Hibernate
NumPy	Git
Seaborn	AWS

CERTIFICATION

Microsoft Azure Fundamentals - AZ-900, Microsoft

AWS Cloud Practitioner Essentials - AWS training and certification, Amazon Web Service

Machine Learning, Coursera

Machine Learning Fundamentals with Python Track, DataCamp

EXTRA-CURRICULAR ACTIVITIES

Student Volunteer, Aliah University — Kolkata

Work as lead Student Volunteer in Aliah University for the "Trends in Artificial Intelligence & Machine Learning Research (TAIMLR'20)" conference in January 2020.

HOBBIES

Meditation, Photography, Watching Anime

REFERENCES

Dr. Ayatullah Faruk Mollah from Aliah University

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