Shaswat Anand

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EDUCATION

University of Southern California, *Los Angeles* August 2021 - May 2023
Master of Science in Computer Science GPA: 3.65/4
Courses: Algorithms, Artificial Intelligence, Machine Learning, Data Mining, Web Technologies

Ramaiah Institute of Technology, *Bangalore* August 2015 - July 2019
Bachelor of Engineering in Information Science and Engineering GPA: 9.6/10
Courses: Data Science, Deep Learning, Operating System, Computer Networks

SKILLS

- **Languages**: Python, Typescript, C/C++, Java, HTML, JavaScript, SQL, Scala
- **Technologies**: Angular, Flask, NLP, REST APIs, Git, Rasa NLU, NLTK, SpaCy, Dialogflow, TensorFlow, Scikit-Learn, Spark, Beautiful Soup, Redis, Celery
- **Platforms**: Linux, Ubuntu, MacOS, AWS

EXPERIENCE

NVIDIA, NLP Engineering Intern, *Santa Clara* May 2022 - August 2022
- Worked with the RAPIDS team on analysing, designing, and implementing optimized GPU algorithms for large-scale data analytics and machine learning.
- Boosted the API coverage in cuML and cuDF by adding and improving around 7 features.

Query.AI, Senior Software Engineer, *Bangalore* August 2020 - July 2021
- Minimized misclassified user intents by over 50% by redesigning the Natural Language Processing(NLP) features.
- Scaled the API contracts by developing more than 10 REST APIs at the backend.
- Improved access to the NLP and more than 4 other features by developing user interface at the frontend.
- Contributed to open source NLP libraries like Rasa NLU by adding 2 features to it.
- Assisted the team in acquiring intellectual properties by co-authoring 2 patents out of which 1 is granted.
- Supported industry-academia interaction by supervising a 3 student team in building a mobile application for the product.

Query.AI, Software Engineer, *Bangalore* July 2019 - August 2020
- Conceptualized the Data Science foundations of the product's analytics features by developing more than 1 prototypes of Machine Learning(ML) and Deep Learning(DL) models.
- Developed an optimised model for anomaly detection by developing an Autoencoder model using TensorFlow.

Nuclei, Android Developer Intern, *Bangalore* February 2019 - June 2019
- Empowered at least 2 financial enterprises in delivering Recharge and Bill Payment services by developing modular SDKs .

Query.AI, Software Engineering Intern, *Bangalore* June 2018 - July 2018
- Enhanced the cognitive console product's performance by over 20% by optimising its AI features and ML models.

PATENTS AND PUBLICATIONS

- Virtual Data Lake System Created With Browser-based Decentralized Data Access And Analysis: **U.S. Patent Number 11397832** July 2022
- Artificial Intelligence-Assisted Information Technology Data Management and Natural Language Playbook System: **U.S. Patent Number 10846342** November 2020
- Nature-Inspired Techniques for Data Security in Big Data August 2019
- A Study of Use Cases for Smart Contracts using Blockchain Technology October 2018

PROJECTS

Password Cracking Tool (Python, Flask, Kali Linux)
- Developed a security assessment tool to test the vulnerability of a user's account.
- Increased its accessibility by creating 3 versions – Web, Linux and Windows applications.

AI agent for GO Board Game (Python, Linux Shell, JavaScript)
- Built an AI agent using alpha-beta min-max algorithm with dynamic iterative depth for 5*5 GO board.
- Provided a user interface through a web application for excellent user experience with a win probability of more than 80%.

Library Management Application (Java, Android, SQL)
- Expanded user engagement in college libraries by 40% by developing a mobile application for the institution.

Handwritten Digit Recognition from scratch (Python)
- Designed a multilayer perceptron model to recognise handwritten digits **without using any external libraries**

Recommendation System (Python)
- Created a XGBoost Regressor model to recommend restaurants to users by predicting their rating for each outlet.

AWARDS AND HONORS

- Won second runner-up among over 900 teams across India at the Cognizant Mastercode hackathon. August 2018
- Earned the Silver Medal for Academic Excellence at Ramaiah Institute of Technology. August 2019