

EDUCATION

University of New South Wales (September 2024 - Present)
Masters of Data Science and Decisions

Birla Institute of Technology and Science (September 2020 - June 2024)
BE Computer Science First Division

Bright Riders School (June 2020)

- Class 12th
- Class 10th

EXPERIENCE

ADNOC, Abu Dhabi, UAE (June 2022 - August 2022)
During my time as a Data Science Intern, I worked on predicting equipment failures in advance, contributing to cost savings and operational efficiency. I gained valuable experience in industrial data management, including real-time sensor data handling and rigorous data processing.

Streamlit, Abu Dhabi, UAE (July 2023 – July 2024)
As the Student Ambassador I developed and showcased impactful data visualization projects using Streamlit, actively engaged with students offering guidance on integrating Streamlit into their Data Science and Machine Learning projects. I continue to develop good work relations and expand my knowledge as I contribute my best to the project.

Glympsify, Dubai, UAE (October 2022 - June 2024)
During my time as the CTO and Co-founder of Glympsify, an AI start-up venture, I am working on various projects. As part of the initial member, I was the lead in creating world's first service that converts summarized texts into interactive videos. I led a team for the same from the conception of the project to its first prototype launch.

Sentient Labs FZ LLC (August 2023 – January 2024)
As a Data Science Intern at Sentient Labs. So far, I have learned and applied machine learning techniques, notably on AWS SageMaker, skillfully analyzed extensive datasets extracting valuable insights, successfully crafted a web application using Next.js and deployed it efficiently through AWS and created multiple application mock-ups with Streamlit and Figma among other responsibilities.

TECHNICAL SKILLS

Expertise Areas: Data and Product Analyst

Programming Languages: Python, C, C++, Java, HTML, JavaScript

Databases: MY SQL, Oracle, Amazon Dynamo DB, MongoDB

Tools and Technologies: Machine Learning and Deep Learning, Data Mining and Data Science, Streamlit, NLP, OpenCV, AI, Scikit-learn, Tkinter, Flask, AWS QuickSight, AWS Amplify, AWS Cognito, AWS Dynamo DB, AWS Timestream, AWS IoTCore, AWS Lambda, and AWS S3 Buckets, Microsoft Power BI, Tableau

ACADEMIC PROJECTS

- **Interview Chatbot** (May 2023- June 2023)
The project focused on the creation of an AI Powered interview chatbot using ChatGPT, Pinecone, LangChain, and Streamlit technologies. It aimed to streamline the interview process for recruiters, ensuring scalability and maintaining consistency and objectivity. The project leveraged the capabilities, evaluate candidate Responses, assign scores and provide valuable insights.
- **Abnormal Human Activity Detection Using LRNC** (April 2023 – May 2023)
The project focused on developing a Deep Learning model utilizing LRNC for real-time detection of abnormal behavior in videos. It leveraged the power of Long-Term Recurrent Convolutional Network (LRNC) by combining CNNs and RNNs. It also aimed to reduce computational time and optimizing anomaly detection accuracy. The model achieved an accuracy of 92% on the diverse dataset.
- **Intrusion Detection on UNSW-NB15, BOT-IOT and TON-IOT Datasets (February 2023- March 2023)**
The project included development of a web application for intrusion detection using UNSW-NB15, BOT-IOT and TON-IOT, combining the three datasets to create a universal dataset. The model achieved 99% accuracy which is 10% higher than the previous models. The research is currently in the process of writing and publication.
- **Code Analysis Tool** (February 2023 – March 2023)
The aim of the project was to develop a code analysis tool capable of fixing errors, optimizing code, and converting codes from one language to another. It utilized AI models to enhance the functionality and accuracy of the code analysis tool and supported over 170 programming languages. During this project, I led the team of developers through all the steps of the process from ideation to completion.
- **Business Forecasting Web Application** (September 2022 – January 2023)
The primary aim of this project was to identify essential trends and patterns inherent in the dataset. Implementing a Random Forest model, I successfully predicted future business outcomes, achieving a noteworthy 15% increase in accuracy compared to contemporaneous benchmarks. This project not only underscored my proficiency in data analytics but also demonstrated a capacity for impactful decision-making through advanced predictive modeling techniques.

ACADEMIC PUBLICATIONS

- Siddharth, C., Sapna, S., Pranav, P., Raja, M. (2024) "Unifying Datasets and Machine Learning for Network Intrusion Detection: A Novel Approach with Web-Based Visualization." Elsevier Journal of Computers & Security (Under Review)
- Siddharth, C., Siddhaling, U., (2024) "Stock Price Movement Based on News Headline using Machine Learning Algorithms." International Information and Engineering Technology Association Journal of Revue d'Intelligence Artificielle ((Under Review)

HONOURS AND AWARDS

- Achieved 3rd place in the ChatGPT OpenAI Contest organized by ExPonential Research Technologies (xPERT) and Birla Institute of Technology and Sciences, for the development of an AI-powered chatbot revolutionizing the job interview process.
- Secured 6th position among 7000+ participants in the OpenAI Stack Hack Hackathon. This included the development of an AI-powered code analysis tool capable of detecting errors, optimizing code, explaining codes, and converting code from one language to another.
- Achieved 4th position in the highly competitive Postman API Hackathon, showcasing exceptional skills in API integration and software development. This included developing a Job Recommender Platform which leveraged Machine Learning techniques to provide highly

personalized job recommendations.

- Shortlisted for the NASA Hackathon in the local region. It included developing an innovative App that addresses challenges faced by renewable energy investors which implemented a solution for renewable energy investors interested in setting up renewable energy generators.
- Secured First position at NASA Space Apps Hackathon (UAE) for the development of a web-based game using HTML, CSS, and JavaScript. The project includes an AI quiz generator adapting to user knowledge levels and an AI chatbot for universe-related queries. The innovative project exemplifies the seamless integration of entertainment and education.

SCHOLARSHIPS

- Selected for the prestigious Indo-German High-Tech Start-Up Camp 2023 scholarship across all BITS campuses, sponsored by DAAD. Glympsify, my startup, gained valuable exposure and connections, fostering collaborative innovation with Co-Founders from around the world. Engaged in transformative workshops at renowned universities, this experience significantly influenced my entrepreneurial journey.

EXTRACURRICULAR ACTIVITIES

- Table Tennis Club Captain (BITS Pilani Dubai)
- 2nd place as a Table Tennis Player (Intra-University Tournament, BITS Sports Festival)
- Table Tennis Tournament Organizer (Inter-College Sports Festival)
- Silver medalist in Inter-College Dodgeball Tournament
- 3rd place as a Basketball team Member (Inter-College Tournament)
- Grade Ni Dan (Black Belt-2) in the examination conducted by International Shorin Ryu SeibukanKarate-do
- Merit certificate receiver from Trinity College London for Level 1 award in examination in Music Performance (Electrical Keyboard)

CERTIFICATIONS

- IIT- Madras certificate for being the Entrepreneur lead in the 27th Cohort
- Boston Consulting Group Data Science and Analytics
- PwC Switzerland Power Bi
- JPMorgan Chase & Co. Software Engineering
- HP Effective Leadership
- Machine Learning Specialization by Andrew Ng
- Machine Learning Basics to Advance
- Deep Learning Masterclass
- Python Course – Kaggle
- Python For Everybody – University of Michigan
- HTML, Python and Flask Frameworks
- Git & GitHub A Practical Course
- Android App Development with Kotlin
- Ethical Hacking from Scratch