

MAHATHI RACHAVELPULA

☎ +1(551)292-0363 ✉ mahathirachavelpula@gmail.com [in @mahathi](#) [@mahathi](#)

Education

Stevens Institute of Technology

Aug. 2024 – Present

Master of Science in Data Science

New Jersey, USA

Relevant Coursework: Advanced Python, Machine Learning, Foundational Mathematics for Data Science, Introduction to probability

Symbiosis Institute of Technology

Aug. 2020 – May 2024

B.Tech in Computer Science and Engineering

Pune, IN

Honors in Department of Data Science

Relevant Coursework: Data Structures & Algorithms, Programming and Problem Solving, Discrete Mathematics and Probability Theory, Machine Learning, Data Science, Computer-based statistical packages, Big Data, Business Intelligence

Work Experience

Nasdaq

Jan 24 – June 24

Cloud Computing - Internship

Pune, IN

- Developed and maintained automation scripts for cloud deployments, resulting in a 30% reduction in deployment time and a 25% increase in team productivity.
- I actively contribute to the implementation and maintenance of cloud-based solutions, collaborating with teams to optimize financial software applications and support configurations.

New India Assurance

June 23 – July 23

Data Analyst - Internship

Muscat, Oman

- Designed and implemented a data collection and storage process that reduced manual policy data entry errors by 25%.
- Presented data summaries and visualizations to the management team through interactive power BI dashboards, leading to improved decision-making and better alignment of goals that led to a 10% increase in overall sales.

Publications

IEEE ACDSA - Feb'24: Real-Time Sign Language Detection submitted to International Conference on Artificial Intelligence, Computer, Data Sciences, and Applications (ACDSA), Mahé, Seychelles. [Link](#)

Projects

Stroke Prediction | Python, Data Visualisation

Dec'23

- Developed a model to compare and determine the best classification model for stroke prediction.)
- This project uses various pre-processing techniques, machine learning algorithms and concepts like ensemble learning.

American Sign Language Detection | Python, OpenCV, Tensorflow.

Dec'23

- Developed a sign language detection system using advanced technologies including machine learning and TensorFlow(Object Detection API).
- Implemented the trained model for real-time sign language detection and achieved an overall accuracy of 90% and promoting accessible communication for the Deaf and hard of hearing community.

Aviation Expansion | Tableau, Python, jupyter. [Link](#)

April'23

- Composed a Model to help Airlines or organizations break down and extend themselves into a strange market.
- Implemented machine learning algorithms to forecast market trends and potential challenges, providing valuable insights to inform decision-making processes

SneakerXchange | Html, CSS, JavaScript, Node.js, MongoDB. [Link](#)

May'23

- Designed and implemented MongoDB schemas to ensure efficient data storage and retrieval.
- Optimized the codebase and enhanced system performance through regular code reviews, debugging, and improvements.

Technical Skills

Languages: Python, R, C/C++, HTML, JavaScript, SQL

Tools/Frameworks: Machine Learning, Cloud Computing, Tableau, Power BI, GitHub, TF-Keras, Ansible, Active Directory, Jenkins

Technologies: AWS, Linux, MATLAB, Docker, Jupyter, Postman, Cloud Computing

Position of Responsibilities

Co-Head, Codechef, SIT Organised India's largest coding competition with over 2000 active participants from top-tier colleges.

Google Cloud facilitator, SIT My responsibilities involved facilitating the learning journey of participants, ensuring that they gained practical experience in essential Cloud Computing concepts, Application Development, Big Data, and ML.