

Monish Kanna Suresh

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EDUCATION

STEVENS INSTITUTE OF TECHNOLOGY | New Jersey, United States

Master of Science in Applied Artificial Intelligence; GPA: 4.00/4.00

Expected May 2024

Relevant Courses : Big Data Analytics, Applied Machine Learning, Deep Learning

ANNA UNIVERSITY | Chennai, India

Bachelor of Technology, Information Technology; GPA: 3.30/4.00

May 2021

Relevant Courses : Computational Intelligence, Machine Learning, Data Structures, Computer Networks

SKILLS AND CERTIFICATIONS

Technical Skills : Python, C, JAVA, HTML, CSS, Node.js, React.js, MySQL, MongoDB

Deep Learning Frameworks : Tensorflow, PyTorch, Keras

Software : MatLab, Android Studio, Microsoft Suite(Word, Excel, Powerpoint)

Certifications : Python Data Structures by University of Michigan, Python for Data Science and AI by IBM, Machine Learning by Stanford University, A-Z Machine Learning by Udemy, A-Z Artificial Intelligence by Udemy, Neural Networks and Deep Learning by DeepLearning.ai

WORK EXPERIENCE

Magzter Digital Private Limited | Chennai, India

Software Engineer

December 2021 - April 2022

- Focused on enhancing security of AWS Lambda Endpoints for HTTP API's
- Developed a Node.js algorithm to integrate with Amazon Web Services (AWS) for attaching Web Access Firewall (WAF) to protect HTTP API's from attacks
- Constructed an algorithm in Node.js to merge with Amazon Web Services (AWS) for blocking IP addresses that attack API's and created Cloudfront Distribution (CDN) for endpoints on caching data of API's
- Designed Node.js algorithm that examines authorizer for lambda endpoints to validate API gateway, accessing Key Management Service (KMS) for secret key accessing and lambda layers for packages

BonBloc Technologies Private Limited | Chennai, India

Software Engineer Intern

June 2021 - September 2021

- Implemented an algorithm in Node.js and Microsoft Intune to help integrate mobile devices that have same Operating System configuration and specifications when used for tracking and monitoring

Genome International Private Limited | Chennai, India

Software Engineer Intern

February 2021 - May 2021

- Developed web scraping program in Python to download genomic data and parsed over 2,70,000+ genes and locations
- Extracted details of 23 chromosomes from genomic databases using web scraping program in python and published in AWS EC2
- Deployed python program to create data records in MySQL using 500+ patients meta data and collected 1000+ gene related information operating APIs and SQL, visualised and stored in nested data structures

ACADEMIC PROJECTS

STEVENS INSTITUTE OF TECHNOLOGY | New Jersey, United States

Drowsiness Detection :

September 2022 - December 2022

- Led a team of three to build a real time system to reduce car accidents by keeping track of driver's eyes and alerting them when they are detected as drowsy
- Performed comparison of the model's accuracy while utilising algorithms such as KNN, CNN, Random Forest, Decision Tree and Support Vector Machine

Emotion Based Music Recommender :

September 2022 - December 2022

- Designed a machine learning model to recommend music based on the current emotion of the person
- Constructed a CNN based model that captured the human expression and categorised them amongst seven emotion labels

ANNA UNIVERSITY | Chennai, India

Enhancing Noisy Speech Data For Gender Recognition :

November 2020 - April 2021

- Developed Machine Learning models (CNN, RNN, UNet) using Python, Tensorflow with a view to compare models on enhancing noisy speech data to obtain clear voice of speakers
- Initiated to transfer significant model output to another CNN model to classify gender of speaker

Speech Emotion Recognition using Deep Neural Networks :

April 2020 - June 2020

- Headed a team of three members and implemented machine learning model using Python, Tensorflow, Keras to process speech of speaker
- Processed speech was used to categorise emotion of speaker based on feature extraction