

SREE KRISHNA SURESH

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A passionate data science graduate with expertise in various programming languages and strong foundation in problem solving coupled with critical and creative thinking. Excited to be part of a team that is committed to leaving a lasting mark on the digital landscape.

EDUCATION

Master of Science in Data Science, Northeastern University

Sep 2021 - Dec 2023

Coursework: Statistical Modelling, Machine Learning, Deep Learning, Data Mining, NLP

Bachelor of Technology in Mechanical Engineering, SASTRA University

Jun 2014 - May 2018

EXPERIENCE

Graduate Teaching Assistant, Khoury College of Computer Sciences

Sept 2022 - Dec 2023

- Mentored projects and tutored 40+ students on topics including supervised machine learning, data visualization and data mining

Machine Learning Intern, Lightforce Orthodontics

Jan 2023 - Jul 2023

- Engineered AWS Airflow data pipeline to process point cloud data over 3TB into h5 files and store in S3, improving data accessibility
- Developed python scripts to perform various data sampling strategies and generated visualizations to maintain data integrity and uniform distribution
- Pioneered a novel approach for automated 3D plane with 95% accuracy, to facilitate bracket placement by implementing PointNet++ model, leading to \$50k reduction in overhead costs
- Authored a customized version of PointNet, a deep learning model for 3D classification and segmentation of point cloud data based on Stanford research paper
- Implemented the model in SageMaker notebook using PyTorch and achieved 98% prediction accuracy, surpassing previous methods
- Successfully deployed multiple machine learning models with single endpoint on optimized EC2 instances of AWS
- Utilized Terraform scripts and TeamCity for seamless integration, reducing deployment time by 60%

Applied Data Scientist, Wipro

Jan 2021 - Aug 2021

- Boosted application performance by 60% by building optimized ETL pipeline connecting PostgreSQL and Elasticsearch Data base
- Expedited data retrieval between client and server by implementing a scalable GraphQL API and introducing a new data model, achieving an estimated cost savings of \$200k
- Conducted a comprehensive statistical analysis and performed time series forecast on over 150k Wikipedia pages' web traffic data
- Implemented XGBoost, ARIMA, LSTM, and Prophet models to compare accuracy, identify underlying trends and seasonality shifts

Senior Software Engineer, Wipro

May 2018 - Dec 2020

- Designed and developed a web application for creating large-scale telecommunication networks utilizing Angular and Spring Boot
- Conducted comprehensive testing with Junit and cucumber and streamlined deployment through Jenkins automation
- Recognized with the Panache Award for outstanding performance in delivering the highest number of feature improvements and bug fixes among an agile team of 100+ employees in a fiscal year

PROJECTS

Spotify Music Genre Classification - Hackathon

Nov 2023 - Nov 2023

- Secured 3rd position in 7 day Data Hackathon by designing and implementing a robust ensemble model utilizing XGBoost, LightGBM, and CatBoost algorithms
- Performed feature engineering leveraging insights from Natural Language Processing and implementing data imputation strategies

Auto-Suggest Next Word

Oct 2022 - Dec 2022

- Implemented N-gram, Stacked LSTM, and GPT2 models to predict the next word in a sentence and generated topics for the documents
- Utilized Latent Dirichlet Allocation (LDA) for topic modelling with data sourced from Gutenberg eBooks of 5.5 million characters

Image Captioning Using Deep Learning

Feb 2022 - May 2022

- Generated description for images from objects and actions in the image, used 30,000 images and 150,000 captions for model training
- Developed multiple models like CNN-RNN, InceptionV2-Transformer, ResNet101-BERT and achieved the best BLEU score of 0.78

SKILLS

Programming

: Python, R, Java, C, C++, MATLAB

Data Science & ML

: Pytorch, TensorFlow, NumPy, Pandas, Scikit-Learn, NLTK, Matplotlib, Plotly

Web & Database

: Angular, Spring, JavaScript, HTML5, CSS, Git, SQL, PostgreSQL

Tools & Technologies

: AWS, Tableau, PySpark, TeamCity, Jenkins, Terraform, MS Excel

Certifications

: Python Specialization - Coursera, SQL for Data Analysis - Udacity, Machine Learning - Stanford