SHUBHAM GORE

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EDUCATION

University of Southern California, Master of Science Computer Science   Los Angeles, CA
- Intro to Artificial Intelligence, Machine Learning, Analysis of Algorithms, Information Retrieval

SRM Institute of Science and Technology, BTech CSE with Big Data Analytics   Chennai, Tamil Nadu
- CGPA: 9.3/10

TECHNICAL SKILLS

- Languages and Frameworks: Python, C++, MERN, SQL, Git
- Tools and Infrastructure: Matplotlib, Seaborn, Scikit, Keras, Tensorflow, Jira, AWS, Postman, Tableau, Agile

WORK EXPERIENCE

CDAC   Pune, Maharashtra
Research Assistant   August 2023-October 2023
- Researched and developed machine learning models (LSTM, GRU) to predict traffic matrices on telecom datasets (Abilene, GÉANT)
- Evaluated multiple approaches, including complete TM, individual OD flows, and top m-OD flows with key element correction
- Discovered predicting overall traffic matrix combined with key element correction balances traffic engineering performance and prediction time

Avaya Pune, Maharashtra, India Internship   Maharashtra, India
Intern   January 2023-July 2023
- Collaborated with a team of five on Avaya Social Connections, a cloud-based social media messaging solution integrates contact centers with social business channels Facebook, Instagram, WhatsApp, and Twitter
- Devised and contributed to microservices Facebook connector, contact center adaptor, etc. are built using Java, spring boot, Nodejs, typescript
- Added to features Datadog metrics, monitoring, logging - feature implementation Hashing PII items, graceful shutdown for microservices, Improved security of product by solving sonar scan and Coverity scan bugs, increasing test coverage from 30% to 80%

ACADEMIC PROJECTS

Lip Reading   Los Angeles, CA
- Implemented Lip Net, a model maps variable-length video sequences to text by utilizing spatiotemporal convolutions, a recurrent network, and connectionist temporal classification loss, trained entirely end-to-end

Kaggle, Plant Traits (2024)   Los Angeles, CA
- Employed ConvNeXT, Swin Transformer, and ViT models, augmented datasets, integrated crowd-sourced data, and optimized preprocessing to boost model generalization, accuracy, and performance

Customer Churn Analysis   Chennai, Tamil Nadu
- Predicted Churn rate of telecom company's customers leveraging Neural Networks and designing a dashboard of most important features with tableau
- Proposed idea of SMOTE-ENN, nearest neighbor-based algorithm analyzing different strategies for feature engineering for resampling of data set to increase accuracy of model by 4-5%

Optical Character Recognition, Data Science Community, SRM   Chennai, Tamil Nadu
- Led a team of 4 to build an application for Recognition of characters in structured and unstructured form using py-tesseract and CNN and OpenCV for image preprocessing and implementing it on Streamlit.io
- Developed the Recognition of Structured images of dataset making bounding boxes using CNN and py-tesseract and extracting text in a text file

CO-CURRICULAR ACTIVITIES

- Took part in in Data-thon organized by Delhi Technological University—Forecasting weather by deploying Arima model, Oct 2021, Created a prototype for an e-governance app, DTU Ideathon, Sep 2021
- Pursued Deep-Learning Specialization Certification by DeepLearning.AI on Coursera 07/2021 - 07/2021
- Pursued The Course on Nptel Introduction to Machine-Learning, IIT Madras 10/2021 - 10/2021
- Customer Prediction leveraging Neural Networks and SMOTE-ENN for Data Sampling AISP'23:3rd International Conference on Artificial Intelligence and Signal Processing