SHREYA RAMESH

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Highly motivated, technically sophisticated professional with versatile expertise in Data Analytics. Proven success achieving data-driven business solutions while remaining true to clean code, industry standards, and consumer needs. Available for new challenges that help the business achieve its goals and direct me to strengthen my skills and advance my career.

EDUCATION

- **Georgia State University** – J Mack Robinson College of Business — *Atlanta, Georgia*
  Master's in Data Science and Analytics — *Aug 2021- May 2022*
- **Anna University** – Valliammai Engineering College — *Chennai , India*
  Bachelor's in Information Technology — *Aug 2014 – May 2018*

SKILLS

- **Programming / Database** : Python(NumPy, Pandas, Matplotlib, SciKit-Learn, OpenCV, Keras, PyTorch, TensorFlow), R, C, C++, x++, MySQL, MongoDB
- **Data Science** : Data Preprocessing, ML/DL Algorithms (Classification, Prediction, Clustering, Association, Neural Networks), Text Analytics, Natural Language Processing, Speech and Image Recognition, Statistical Modelling, Data Management, Data Visualization
- **Other Skills / Tools** : Tableau, Power BI, Apache Spark, Hadoop, Excel, Visual Studio , Power Point, Git.

PROFESSIONAL EXPERIENCE

Georgia State University — *Atlanta, Georgia*
Data Scientist - Graduate Research Assistant — *Aug 2021-Present*

CARPUTTY

- Built a **prediction model** for the maintenance cost of cars for the next 60 months for a startup organization
- Collected data using web scrapping with **Selenium** and preprocessed the data using **NumPy** and **pandas**.
- Applied Machine Learning models like **classification**, **Regression,** and **Forecasting** and achieved an accuracy of **80%**.

TEXT ANALYTICS

- Working on a **Text Analytics**, building a classification model for three features determining the licensing details of various Businesses. Collected over 13000 documents, pre-processed the data using **NLP techniques**
- Applying **Machine Learning** & **Deep Learning** models like Logistic Regression, Naive Bayes, Random Forest, SVM, KNN, CNN, RNN, RCNN

Accenture — *Chennai, India*
Application Development Analyst - Analytics & ERP — *Sep 2018 – July 2021*

- Developed **Microsoft Dynamics 365 F&O** solutions for various businesses using Data Models, Forms, SSRS Reports, Data Import Export Framework, Extensions, and Security
- Worked on **SQL**, **Python**, Machine Learning models majorly for text Analytics using **NLP** and Image processing using **OpenCV**
- Single-handedly developed a **POC** on Image Recognition and Classification for Sodexo
- Created reports using **Power** BI and **Tableau** to present the insights to the Business Clients

TekZam Solutions — *Chennai, India*
Software Development Intern — *May 2017 – July 2017*

- Underwent training and learned about various stages of **Software Development Life Cycle**
- Designed and developed the UI and back-end logic and performed **unit testing** for the web application

PROJECTS

- **Dog breed classifier:** Utilized **ImageNet** and **VGG-16** pretrained model to detect dog images. Built a **CNN** to classify the dog breeds. Handled losses, optimized, and trained the model to identify and estimate canine breeds.
- **Predicting Bike Sharing Pattern:** Built and trained my neural network from scratch to carry out a prediction on the number of bike-share users on a given day and used **gradient descent**, **backpropagation** for optimization.
- **Generating TV scripts:** Generated TV scripts using **RNN**. Preprocessed the data using **Lookup Table and Tokenize Punctuation**. Built the **Neural Network** and trained it in batches using different hyperparameters and backpropagation
- **Generating human-like faces:** Developed a **GAN** to generate new images of faces that look as realistic as possible using **PyTorch**. Defined two adversarial networks a discriminator and a generator. Optimized the model and trained it to generate new faces.
- **Sentiment Analysis Model**: Constructed an **RNN** using **PyTorch** to determine the sentiment of a movie review using the IMDB data set. Created the model using Amazon's SageMaker service. In addition, deployed the model and constructed a simple web app.
- **Gene Mutation Classification Facilitating Cancer Tumor Detection:** Classified the gene causing the Cancer tumor with the clinical pieces of evidence of pathologists using **multi-class classification** algorithms like Logistic Regression, Random Forest, KNN, Naive Bayes, XG Boost, RNN.
- **Estimize Consensus Data Management**: Scrapped the data from a website using **Selenium**, created a relational database in **My** SQL, developed ER diagrams, and queried the database to obtain insights

ACCOMPLISHMENTS

- Nanodegree in Deep Learning
- Programming, Data Structure, and Algorithms in Python
- Recognized and appreciated by clients for delivering a critical project successfully and POC development