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My Portfolio

Srinath Tummala
Data Scientist

SUMMARY

Highly motivated Data Scientist with hands-on experience in data analysis, machine learning, statistical modelling, creating and deploying APIs. Proficient in extracting actionable insights from complex datasets through data pre-processing, visualisation, and predictive modelling. A strong problem solver and communicator, good at collaborating with multidisciplinary teams, and conveying technical findings to non-technical stakeholders. Eager to apply my skills and passion for data-driven solutions to drive organizational success.

EDUCATION

MSc. in Data Science	Oct '20 - Jul '22
GITAM University	Hyderabad, IN

CGPA - 8.89

Key Courses - Python, Machine Learning, Statistics, SQL, NoSQL, Cloud Computing

BSc. in Computer Science	Jun '17 - Sep '20
Bhavan's Vivekananda College	Hyderabad, IN

CGPA - 8.81

Specialization- Mathematics, Statistics and Computer Science

KEY SKILLS

- Data Analysis
- Programming
- Version Control
- Computer Vision
- Cross functional Collaboration
- Machine Learning
- Data Visualization
- Statistical Methods
- Natural Language Processing
- Problem solving
- Deep Learning
- Data Wrangling
- Data Manipulation
- Quantitative Analysis
- Continuous Learning
- Statistical Modelling
- Databases
- Modelling Techniques
- Debugging
- Team Coordination

TECHNICAL SKILLS

Programming Languages : Python, C, C++, Java, HTML

Python-toolboxes : NumPy, Pandas, Scikit-learn, Tensorflow, PyTorch, Keras, Matplotlib, OCR, Easy-OCR, Seaborn, Plotly, Statsmodels

Data Visualization Tools : Microsoft Excel, Power BI

Databases : SQL, NOSQL, MONGODB

IDEs : Android Studio, Anaconda, Jupyter Notebook, Google Colab

Version Control : Git - GitHub, Bitbucket

Additional : Streamlit, FastAPI, FlaskAPI, Docker, AWS S3 storage Service, CI/CD Pipeline, Latex, Microsoft Office Suite

COURSES and CERTIFICATIONS

- Advanced Certification Program- ML and DL | IIIT Bangalore | Jul '23 - Present
- Android Development —Android Oreo Developer Course| Udemy | Dec '18

DATA SCIENCE PROJECTS

- **Master Thesis - Malicious URL Detection | Tech Stack: Python | March '22**
  - Developed a model to classify URLs as Malicious or Benign using a public dataset with 450,176 rows.
  - Extracted 17 features, including Lexical, Count-based, and Binary features.
  - Trained models using AdaBoost and Random Forest classifiers, optimizing results through the Voting Classifier ensemble method.
- **Exploratory Data Analysis - Loan Default Dataset | Tech Stack: Python | July '22**
  - Conducted comprehensive EDA on a Lending Club Dataset with 111 columns and 39,000 unique customer records.
  - Implemented advanced data cleaning techniques and analytical methods for meaningful insights.
  - Executed Univariate, Segmented Univariate, and Multivariate Analysis to uncover relationships and patterns among variables.
  - Demonstrated proficiency in Python, data preprocessing, statistical analysis, and data-driven decision-making.

PROFESSIONAL EXPERIENCE

Data Scientist

Jul '22 - Present

Onpassive Technologies Pvt Ltd.

Hyderabad, IN

Product Based AI Technology Company developing fully autonomous Software as a Service (SaaS) products for global clientele.

Projects

- Worked on various projects like Speech translation modules, Sentence Correction and Smart Compose feature in Grammar check using state-of-the art pre-trained transformers, and Image to document conversion - Text extraction using OCR by training object detection module using YOLOv5. Currently working on EKYC feature which involves face recognition, Liveliness detection, and OCR modules

Overview

- Hands-on experience in Data Science, Machine Learning with large datasets of Structured and Unstructured data, Data Acquisition, Data Validation, Data pipelines, Predictive Modelling, Data Visualization, Testing and Deployment.
- Working knowledge of Python for data extraction and data manipulation, and widely used python libraries like Scikit-Learn, NumPy, Pandas, NLTK, Matplotlib, Seaborn, SciPy, statsmodels.
- Extensive Research on architecture for the above POCs and features and developed end-to-end architecture for Speech Translation and Image to Document Conversion POCs
- Good knowledge in creation and retrieval of Data from databases like SQL, MySQL and MongoDB
- Good knowledge of implementing machine learning algorithms and proficient with developing neural networks such as CNNs, RNNs, attention and Transformer Models using TensorFlow and PyTorch.
- Gained knowledge on CI/CD pipelines for efficient and automated model deployment.
- Hands-on experience in creating APIs using FlaskAPI, FastAPI.

Data Science Intern

Jan '22 - Apr '22

Onpassive Technologies Pvt Ltd.

Hyderabad, IN

Product Based AI Technology Company developing fully autonomous Software as a Service (SaaS) products for global clientele.

Projects

- **Email Category Classification -** This feature is used to classify an email into on of the following categories - Social, Primary, Updates and Promotions.

Overview

- Worked extensively on cleaning and analyzing around 3 lakh rows of email data to bulid a classification model to predict the category of an email
- Developed a classification model using Naive Bayes classifier to classify the category of an email
- Designing Streamlit application to demonstrate the project to stakeholders

ADDITIONAL ACHIEVEMENTS & VOLUNTEER EXPERIENCE

- Received second prize for my android Application - Onestop at a College-level Tech competition during my Bachelor's.
- Honored with "Mr. Computer genius 2019" award for my achievements and projects in Computer Science.
- The app which I have developed "Bhavan's Vivekananda College App" is being officially used by the college with over 2000+ users.
- Worked as Vice President of Bhavan's Core Division in an organization called Street Cause which is the largest student-run NGO.