

ANANYA SATHYANARAYANA

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SUMMARY

Seasoned software engineer with 10 years of technical expertise transitioning to data science. Proven track record of solving complex technical problems, with strong programming skills in Python, SQL, and machine learning frameworks. Passionate about leveraging data-driven insights to drive strategic decision-making and develop innovative solutions.

TECHNICAL SKILLS

- **Programming Languages:** Python, SQL
- **Machine Learning:** scikit-learn, TensorFlow, Keras, PyTorch
- **Data Analysis:** Pandas, NumPy
- **Visualization:** Matplotlib, Seaborn
- **Tools:** Git, Jupyter Notebooks

EDUCATION

- Recently completed Post Graduate Program in Artificial Intelligence and Machine Learning from **University of Texas at Austin** with CGPA 4.24/4.33
- Completed **B.E. in Computer Science** from CMR Institute of Technology (Visvesvaraya Technological University) with aggregate of 68.47

PROJECTS on AI/ML

Chatbot Utility for Severity Level Classification of Industrial Accidents using NLP techniques

- Performed Text preprocessing using NLTK to clean accident description
- Experimented with different embedding and ML techniques to classify accident severity
- Fine tuned open source BERT models on Hugging Face for text classification
- Evaluated different models based on F1 score owing to class imbalance of given data
- Achieved 51% F1 Score using DistilBert fine tuned model

Face Recognition System using Computer Vision Image Segmentation techniques

- Developed a UNET based Image Segmentation model that uses ResNet as the base for encoder. Additional decoder layers are added to UNET

- Generate embedding vectors and identify similar images based on distance between embedding vectors using pretrained VGG16 model
- Dimensionality Reduction - PCA technique is applied on vectors and a Support Vector Classifier is used to classify the test images with accuracy of 96%

Credit Card Customer Churn Prediction and Deployment using Flask API

- Performed EDA and model experiments to identify best model
- Conducted Hyperparameter tuning of the best 3 models using GridSearch
- Finalized the XGBoost model for deployment and packaged it using Flask RestFul API
- Tested the interface using PostMan tool after local deployment

WORK EXPERIENCE

- **Technical lead, *Cognizant Technologies, Bangalore* Dec 2014 to June 2019**
 - Managed design and delivery of several TIBCO interfaces for insurance advisers of an Australian banking client
 - Developed custom mapping using Java code
 - Involved in project estimation and resource planning for new projects
 - Involved in technical training and mentoring of new hires on TIBCO skills
 - Involved in conducting technical interviews for the team and the organization
- **Senior Software Developer, *Hewlett-Packard Global soft Limited, Bangalore* - Oct 2011 to Dec 2014**
 - Developed business workflows using TIBCO iprocess for a telecom company in the UK
 - Involved in workflows and interfaces for EU Roaming workflows within TIBCO
- **Software Developer, *Infosys, Bangalore* - Jul 2007 to Oct 2011**
 - Developed SQL scripts for a data migration project
 - Designed and developed a critical module for a customer relationship management program

CERTIFICATIONS

- Placed in Top 16% in African Credit Scoring Challenge on Zindi (January 2025)
- Placed 5th in Restaurant Turnover Prediction in Hackathon conducted by Great Learning (May 2024)