

Ananya Sathyanaraya

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SUMMARY

- Aspiring Data Scientist with 10+ years of experience in software development
- Currently pursuing **Post Graduate Program in Artificial Intelligence and Machine Learning** from Great Lakes Executive Learning with GPA **4.21/4.33**
- B.E. in Computer Science
- **Key Skills:** Data Preprocessing, Exploratory Data Analysis, Feature Engineering, Machine Learning
- **Tools and Technology:** Python, Numpy, Pandas, SciKit Learn, TensorFlow, Keras, SQL, Git
- Experience in Agile methodology software development
- Ability to grasp and upskill new technology with minimal guidance
- Excellent written and verbal communication skills in English
- Resourceful team leader with proven skills for training and mentoring new talent
- Eager to utilize my newly gained skills to solve real-world problems

ACADEMIC PROJECTS on AI/ML

Digit Recognition from House Numbers using Deep Learning

Objective: To build a digit classifier on the SVHN (Street View Housing Number) dataset to identify the single most prominent number from the image of a House Numbers

Approach: Designed a Fully Connected NN Classifier to predict the prominent digits

Result: Achieved 80% precision and 80% accuracy on the test data after hyperparameter tuning

Signal Strength Prediction using Deep Learning

Objective: Predict the signal quality of a product from a A communications equipment manufacturing company using different parameters

Approach: Designed a Fully Connected NN Classifier using Tensorflow /Keras to predict Signal Strength between values 0 and 8

Results: Achieved an 60% accuracy (increase of 10%) in accuracy in test data after redesigning

Customer Churn Prediction using Supervised Learning

Objective: Analyze the customer data and come up with a predictive model to determine if a customer will leave the credit card services or not

Approach: Model Building experiment with different models like AdaBoost, Gradient Boost, Random Forest and XGBoost.

Results: Pipeline built with tuned XGBoost and obtained an accuracy of 94.1% and Recall of 94.6%.

Vehicle Silhouette Classification using K Means Clustering

Objective: To classify a given silhouette as one of three types of vehicle, using a set of features extracted from the silhouette.

Approach: Build, train and hypertune a model based on Support Vector Machine and apply Principal Component Analysis for Dimensionality Reduction

Results: Achieved 94% accuracy and 94% Precision on the Test Data

Car Category Segmentation using PCA

Objective: To segment the cars in the Car Dataset into various categories based on fuel consumption.

Approach: Apply K-means Clustering to calculate the average distortions for 2 to 10 clusters and plot the elbow plot.

Results: Segment the cars into 6 clusters as identified by the above approach

Sales analysis and Report Generation using SQL

Objective: Analyze the order and customer data and prepare Quarterly Business Report. Provide insights on the reason for decline in sales in recent quarters.

Approach: Used SQL to gather relevant data like number of customers, total number of orders, average shipping days aligned for each quarter. Identify Quarter-on-Quarter comparison for average customer ratings, number of orders, average shipping days

Result: Identified pattern of decreased customer ratings due to increase in shipping time. Prepared a Quarterly Business Report with visualizations and provide key insights and recommendation

WORK EXPERIENCE

Roles:

- **Family Sabbatical, Career Break**

Jun 2019 to Present

- **Technical lead, Cognizant Technologies, Bangalore**

Dec 2014 to June 2019

- **Senior Software Developer, Hewlett-Packard Globalsoft Limited , Bangalore**

Oct 2011 to Dec 2014

- **Software Developer, Infosys , Bangalore**

Jul 2007 to Oct 2011

Responsibilities:

- Responsible for requirement analysis, high level design, coding, code review and artifact reviews, unit test plan/tests reviews, production release plan and production handover support
- Involved in client facing discussions (both offshore and onsite) across geographies (India/USA/Australia/UK)
- 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
- Technology used: TIBCO BusinessWorks 5.x, TIBCO Administrator, TIBCO EMS

EDUCATION

- Currently pursuing Post Graduate Program in Artificial Intelligence and Machine Learning from Great Lakes Executive Learning (batch of March 2025)
- Completed **B.E. in Computer Science** from CMR Institute of Technology (Visveswaraya Technological University) with aggregate of 68.47

CERTIFICATIONS

- Placed 5th in Restaurant Turnover Prediction in Hackathon conducted by Great Learning (May 2024)
- Data Science using Python by Edureka (February 2024)