

GOPIKA J

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An AI/ML enthusiast currently working as an NLP Engineer, holding a post graduate diploma in Artificial Intelligence & Machine Learning from UT Austin.

SKILLS & CERTIFICATIONS :

- Machine learning libraries - Numpy, Pandas, Scikit-learn, TensorFlow, Keras.
- Machine learning algorithms - Linear regression, Logistic regression, Decision Tree, SVM, Naive Bayes, KNN, K-Means, Random Forest, Dimensionality reduction algorithms, Gradient Boosting algorithms.
- EDA, Data visualisation
- Python programming
- SQL

ACADEMIC PROJECTS :

- **Applied Statistics** : Deriving statistical inferences for industrial problems. Use of statistical methods to analyse basketball tournament information thereby guiding investment decisions. Analysing the various start-ups that participated in Startup Battlefield.

Skills - EDA, Statistical Inference, Hypothesis Testing, Python.

- **Supervised Learning** : Tackled a healthcare domain problem using supervised learning algorithms to predict conditions of a patient based on biomechanic attributes provided on their conditions. Built an AIML model in the banking & finance domain for targeting customers for marketing. This model can predict potential customers who will convert from depositors to borrowers.

Skills - EDA, Data visualisation, Logistic Regression, Naive Bayes & KNN Classifiers.

- **Ensemble Techniques** : Built a model to help a telecom company to identify customers who have a high probability to churn.

Skills - EDA, Data visualisation, Decision Tree, Bagging Classifier, Random Forest Classifier, AdaBoost Classifier, GradientBoost Classifier.

- **Unsupervised Learning** : Trained regression models on automobile data clustered based on fuel consumption attributes to derive insights on the data. Designed a synthetic data generation model to impute missing values in a manufacturing problem. Used dimensionality reduction techniques and used the resulting components to classify automobiles based on silhouette features. Built a data driven batsman ranking model for a sports management company to make business decisions.

Skills - EDA, Data visualisation, Clustering, Support Vector Machines, PCA.

- **Feature Engineering & Model Tuning** : Built a classifier to predict pass/fail of a process entity in semiconductor manufacturing process while analysing if all features were required in building the model.
Skills - PCA, Feature Selection, Model Tuning, Grid Search.
- **Recommendation Systems** : Built a recommendation system using popularity based and collaborative filtering methods to recommend mobile phones to users.
Skills - Popularity based recommender systems, Collaborative Filtering.
- **Neural Networks & Deep Learning** : Built a regressor and classifier using a neural network for a communications equipment manufacturer, predicting the equipment's quality using various parameters from its products. Built an image classifier to classify numbers from photographs captured at street level using a neural network.
Skills - Tensorflow, Neural Networks, Deep Learning, Image Recognition.
- **CNN Architecture & Transfer Learning** : Built a classifier capable of determining a plant's species from a photo. Trained and tested various algorithms (supervised learning algorithms, neural network, CNN) to identify the best performing model.
Skills - Computer Vision, Tensorflow, CNN, Transfer Learning, Supervised learning, Neural Networks.
- **Advanced Computer Vision - Object Detection & Recognition** : Built an object detection model to highlight human faces. Implemented a face identification model which intends to identify human faces from images.
Skills - Computer Vision, Tensorflow, CNN, Transfer Learning, Supervised learning, Object Detection, Neural Networks.
- **Statistical Natural Language Processing** : Implemented NLP based text classifier to identify categories of blogs from its literature. Built a semi-rule based chatbot that could be employed as a technical support entity.
Skills - RNN, Text preprocessing, LSTM, Tensorflow, Multilabel classification.
- **Sequential Natural Language Processing** : Implemented NLP based text classifier to identify sentiments of users based on reviews in the IMDB database. Implemented a sarcasm detection NLP based text classifier.
Skills - RNN, Word embedding, LSTM, GloVe.
- **Deep Learning Based Car Detection and Identification Model** : Built a deep learning based car detection model to identify each car's make and model. The dataset consists of 196 different categories of cars. The objective is to design a model which can detect the car within the image and also identify its make and model.
Skills - CNN, NN, Computer Vision, TensorFlow, Object Detection.

EXPERIENCE :

Brane Enterprises Pvt Ltd (NSLHUB), Hyderabad

Associate Solution Leader (NLP Engineer) - July, 2022 to Present

Worked on POC for chatbot using RASA framework.

Worked on transformer models for intent classification.

Implementation of an interactive question and answer system.

Oracle India Pvt Ltd, Trivandrum, Kerala

Software Engineer - June,2015 to October,2016

16 months of experience working as a part of PeopleTools Development - Reporting & Integration.

Worked on Pivot Grid, a component that is used as an analytical reporting tool in PeopleSoft. It supports an operational dashboard reporting within PeopleTools framework to provide a pivot table and chart representation for data from various sources.

Worked on Simplified Analytics, a component enabling users to create contextual reports when accessing application pages and is derived from an underlying pivot grid template.

Worked on PeopleSoft Workflow which involves multiple users and the routing of information across users and processes.

Refactored an internal tool that used Excel VBA by enhancing the performance and adding new features.

EDUCATION :

Degree	Institution	Year of passing	Grades
Post Graduate Program in Artificial Intelligence and Machine Learning	Great Lakes Learning University of Texas at Austin - McCombs School of Business	2021-2022	4.15/5
BTech, Computer Science & Engineering	Govt Rajiv Gandhi Institute of Technology, Kottayam, Kerala	2015	7.77
AISSCE (Class 12)	Kendriya Vidyalaya-1, Hemambika Nagar, Palakkad, Kerala	2011	92.4%
AISSE (Class 10)	Kendriya Vidyalaya-1, Hemambika Nagar, Palakkad, Kerala	2009	96.0%