

# KANNU PRIYA

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## EDUCATION

**Masters of Science: Data Science**, University at Buffalo, The State University of New York, August 2022

Coursework: Machine Learning, Statistics, Computer Vision, DMQL, Analysis of Algorithms, Python programming

GPA:3.56/4

**Bachelor of Technology: Electronics and Communication Engineering**, S.R.M Institute of Science and Technology, May 2020

Coursework: Data Structures, Computer Networking, Cloud Computing, Adhoc,Artificial Intelligence

GPA:3.3/4

## WORK EXPERIENCE

**Commissioning Editor, EC-Council, Mumbai, India:** December 2020 - August 2021

- Transformed and analyzed customer data from SQL databases through complex SQL queries to uncover new business opportunities
- Executed and led Commissioning team and improved customer experience facilitated weekly reporting, improve reporting cycle by over 18%.
- Developed more than 200 Cybersecurity, Data Science and Networking course catalogue and course descriptions
- Programmed SQL by converting data for business applications, operated of SQL joins, constraints, subqueries, predefined functions, and exception handling.

**Engineering Summer Intern, TATA Motors, Jamshedpur, India:** May 2019 - June 2019

- Implemented NLP and predictive analysis on massive amounts of data to design instantaneous solutions to reduce impacts to businesses, saving clients up to \$50M at times by averting service interruptions
- Remodelled Multi-label Image Classification, Object detection, Image segmentation, and classification models using Auto ML vision feature in Google Cloud Platform, automated Machine Learning tools DataRobot, and customized models

**Data Science Intern, Spiro Solutions Private Ltd, Chennai, India:** July 2018 - November 2018

- Conducted detailed Exploratory data analysis using Matplotlib and seaborn to handle null and missing values
- Designed machine learning models using scikit-learn, NLTK, Spacy to classify image data and achieved an accuracy of 75%
- Proposed and managed report analysis to technical leaders and C-level executives helped develop audience awareness

## PROJECTS

**Brain Tumor Detection and classification using MRI images using Machine learning**: MATLAB, Machine Learning, Region of Interest

- Constructed training data method for classification of tumour into benign and malignant with stages leveraging SVM with an accuracy of 98.0392%
- Built GLCM, LBP (Local Binary Pattern), PCA(Principal Component Analysis) and DWT(Discrete Wavelet Transformation) for feature extraction of the MRI images

**Netflix-Recommendation Systems**: Python, Collaborative Filtering

- Calculated euclidean distance by leveraging K-NN algorithm where k=5
- Evaluated Collaborative filtering to use to actions of users to recommend other movies with 82% accuracy

**Predictive accuracy for an NBA team's game win**: R, Machine Learning

- Deployed XGBoost, Random Forest and Support Vector Machine for highest prediction
- Calculated performance of players in different eras and visualize non-linear relationship between number of three-pointers attempted and chance of winning by SVM, XGboost and Random Forest

**Image Processing, Textural Feature Extraction and Transfer Learning-based detection of Diabetic**: Python, Transfer Learning

- Extracted features using retinal image processing, textural feature extraction and Decision Tree classifier to predict DR with 94.4% accuracy
- Detected DR in fundus images by Transfer Learning in second approach by 88.8% accuracy

## TECHNICAL SKILLS

Languages/Packages: Python(Numpy,Pandas,Keras,TensorFlow),MATLAB,R,C++

Tools: Jupyter, Databricks, MapReduce, MemSQL, Spark, AWS, GCP, Hadoop, Tableau, MongoDB, SQL Server, MySQL

Technical Skills: Statistics, Data Mining, Recommendation Engines, Supervised Learning, Clustering, Lasso, Ridge, XGBoost, Time series analysis, Statistical Modeling, Trend Analysis, Predictive Analysis