

Kodi Prakash Senapati

AI Solution Developer

A motivated and enthusiastic Data Scientist with 9 years of experience in resolving complex problems in multiple domains by taking own initiatives by understanding client's business use cases and requirements. Seeking a challenging research position or job in Artificial Intelligence, Machine Learning, Deep Learning, Neural Network, Computer Vision, NLP & Tableau visualization. Being a professional want to work or research with a team of inspired people in a dynamic workplace.



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WORK EXPERIENCE

AI Solution Developer

KIABI

06/2020 - Present

Bangalore, India

Kiabi is one of Europe's main textile retailers company and Kiabi promotes French fashion at great value for all the family.

DELAY ORDER PREDICTION & IMAGE SIMILARITY MATCHING

- Build Machine learning classification model to predict the future order. Implemented machine learning algorithm e.g. SGD Classifier, Random forest, XG-Boost, GBM, LGBM classifier. LGBM provides highest accuracy of 92%. Deployed LGBM model using scheduler for atomization. Entire manual work has converted to atomization
- Currently working on R&D for image similarity matching project. Main objective is to recognize images and classify them into categories e.g. Pant, Shirt, T-shirt, sandal, sneakers etc. Then once image is classified, we further recognize the color or color combinations & any other attributes like checks, polka dots strips any prints it has like animal print, flower, tree etc.
- Business use case is that if someone uploads an image, then the application can recognize the uploaded image, and display all images which are similar to it. Recognize and categorize images from dataset, pattern matching. To recommend similar images User upload an image model will recommend the image automatically.
- Using technology are - BCRNN, YOLO, TESSARACT, MASK-RNN, DETECTORN2, TENSORFLOW , ENAS Architecture.
- Developed a creative tableau dashboard using tableau desktop application. Atomization all excel to tableau successfully by different data sources. publish the dashboard into tableau server so that entire business can view and understand the data in faster and quicker way.

Technical Lead

VALUELABS

06/2019 - 01/2020

Hyderabad, India

ValueLabs is a global technology company focused on Product Development, Data Technology and Digital Services.

MEDIQUALITY ARTICLE CLUSTERING

- I build the words clustering regards to the specific type of disease from xml articles. Text cleansing done for unstructured text data using NLP technique like NLTK, Spacy, Lemmatization, Stemming, Beautiful soup, xml.etree .Text cleansing done by removed all Stop words, Non-Ascii character, de-noise characters. Extracting keywords from text documents to list of single words.
- Find the top 10 scoring & weighted frequency of each tokens. use-case is to find the best scoring sentence from the text with high accuracy, I found the highest sentence scoring based on text summarization.
- Based the client requirement I have to find the sentence scoring and using text summarization I completed sentence scoring with ranking order and sentence scoring 1st step is – converted entire document to list of sentence, 2nd step – Text preprocessing and tokenize the sentences 3rd step – Find Weighted frequency of occurrence to get token scoring, 3rd steps – Replace words by weighted frequency in original sentences to get sentence scoring.
- Applied K-MEANS clustering algorithm to build and fit the model to cluster the unsupervised XML data. Applied ELBOW method to find out how many groups can be created to figure out the K-value and the elbow method is a method of interpretation and validation of consistency within cluster analysis designed to help finding the appropriate number of cluster in a dataset.
- As the data is unsupervised hence, I used K-MEANS Algorithm and Cluster visualization done using word cloud.

SKILLS

MACHINE LEARNING

NLP

DEEP LEARNING

NEURAL NETWORK

COMPUTER VISION

R PROGRAMMING

SQL/POSTGRES

MODEL DEPLOYMENT

TENSORFLOW

PREDICTIVE ANALYSIS

STATISTIC ANALYSIS

LINEAR ALGEBRA

DATA VISUALIZATION

DATA ANALYST

BUSINESS ANALYST

DATA WAREHOUSE

BIG DATA

APACHE SPARK

KAFKA

TABLEAU

AZUR ML

DOCKER

HADOOP

HIVE

PYTHON

EDUCATION

MCA (MASTER OF COMPUTER APPLICATION)

Vinayaka Mission University

06/2007 - 06/2010

Chennai, India

Courses

- Mathematical foundation of computer science, computer architecture, C programming, Data structures & Algorithm, Operating system DBMS, UNIX, C#, C, C++, Advanced Java programming, DBMS Lab, OOPS Lab, UNIX LAB, Software Documentation, Computer Graphics

ACHIEVEMENTS

MICROSOFT CERTIFIED AI ENGINEER (02/2020 - 02/2022)

Successfully certified from microsoft in Artificial intelligence Engineer

INTERESTS

Travelling

Sports

Pet care

Music

Art

Gaming

Child Care

WORK EXPERIENCE

Process Developer

GENPACT

08/2011 - 02/2019

Hyderabad, India

Genpact is a global professional services firm that makes business transformation real, genpact is listed in fortune 500 companies in the world.

Insurance & Banking projects :

- PROJECT-1 : CHATBOT DEVELOPMENT : ChatterBot is a machine-learning based conversational dialog engine build in Python. to building the Bot we used Google's natural language understanding developer framework for building conversational experiences. Dialog-Flow needs to be trained on the dataset to attain a machine learning capability which understands the intent and context of what a user says in order to respond in the most useful way.
- Build conversational interfaces on top of your products and services by providing a powerful natural language understanding (NLU) engine to process and understand natural language input. Made exploratory analysis and cleansed the data, Performed below are the data preprocessing steps- Tokenization, Noise Removal, Noun Phrase Extraction, POS tagging, Words inflection, Lemmatizing, N-grams.
- || Semantic Analysis || Sentiment Analysis || Performed below are the Training Phases using Google Dialog Flow || Content Recognition || Content Level Division || Entities Events Generation || Synonym Tuning || Response Training || Using Google cloud (GCloud) performed Bot
- PROJECT-2 : CUSTOMER FEEDBACK ANALYSIS : Primary & secondary research for customer satisfaction & service delay using Natural language processing. Performed Natural language processing (NLP) using NLTK, NAÏVE BAYES, Logistic regression for customer feedback analysis. • Explored the data using different visualization techniques. based on this model user can identify positive or negative review.
- PROJECT-3 : LOAN IQ PREDICTION : Loan- IQ allows you to instantly identify high-risk loans and reduce overall default exposure. The Loan-IQ and Market Risk Scores assist you in making a review decision based on the level of collateral risk associated with a loan. Whether you need to assess one loan or thousands, Loan-IQ delivers the answers you need fast to make the most informed loan decisions.
- Done exploratory analysis and took inferences by visualization the data • Doing Customer interaction and understanding the requirement • Getting the requirements from client and distributing the task among the team members • Improvised the quality of data by removing inconsistent data, missing values and label the data using feature scaling. Filter out high-risk loans by drilling down on red-flagged indicators to assess quality of loans against your underwriting criteria.
- Performed algorithms like KNN, NAÏVE BAYES, Random forest and obtained optimal sensitivity and specificity with logistic regression • Optimized the accuracy parameters with 87% of accuracy. Fast-track low risk loans to automated approval processes • Select the highest risk loans for quality control and due diligence • Evaluate existing portfolios retroactively for loan quality comparisons • Monitor portfolio performance to aid with loss mitigation and retention programs.
- PROJECT-4 : LOAN DEFAULTER PREDICTION : Built a model to predict whether the banking customer will repay the loan amount or not. Used algorithms like KNN, NAÏVE BAYES and obtained optimal sensitivity and specificity with logistic regression. Optimized the accuracy parameters with 82% of accuracy.
- PROJECT-5 : ADVISOR RETENTION STRATEGY SUPPORT: AIG (American international Group) is an American multinational finance and insurance corporation. The company operates through three core businesses: General Insurance, Life & Retirement, and a standalone technology-enabled subsidiary. Prepare the Advisors retention strategy report using machine learning.
- RESOLUTION : Identifying the probable advisors who are likely to leave the organization. • Identifying the most influencing factors which will impact advisors to leave the organization. IMPACT OF BUSINESS SOLUTION : help to reduce the cost of onboarding the new advisors • Retain the existing advisors leaving the organization