

ARUNDEV S

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Summary

A Software engineer with 2 years of experience, **proficient in leveraging machine learning** to build intelligent solutions. Aspiring to gain insights from data and build models to meet customer needs.

Employment History

CGI, Bengaluru, Karnataka
Software Engineer, August 2017 – Present

Projects:

Virtual Service Agent Builder:

A virtual service agent framework with an agent builder studio designed to offer the agility of a platform to build bots faster and the flexibility of a framework to integrate and develop custom functionalities using built in libraries.

Contributions:

1. **Developed a unique TDQ(Topic-Dialogue-Query) model** to analyse a conversation at three levels along with intents and entities.
2. Instrumental in developing **Entity Recognition model** using **Apache OpenNLP**.
3. Established **Intent Classification** based on **Naive Bayes Classifier** using **Datumbbox** framework.
4. Designed data mapping for TDQ model to generate the blueprint xml for the chatbot.

Training and Certification

Data Science and Machine Learning with Python from AnalytixLabs.

Topics Covered: Data analysis with python, Hypothesis testing, Data visualization, Machine Learning algorithms.

Key Projects:

1. **Credit Card Spend Prediction:** Built an **XGBoost Regression** model to predict the credit card spend of customers based on their attributes.
2. **Network Intrusion Detection:** Developed a classifier using **Random Forest** to detect the presence of any network intrusion and identify the exact nature of network intrusion.
3. **Credit Card Customer Segmentation:** Established a **K-Means** clustering model to define the marketing strategies based on customer behavioral attributes.
4. **Text Mining:** Performed advanced text analytics like **Tf-idf based classifier**, **K-Means clustering**, **LDA topic modelling**, **Cosine Similarity** etc to gain insights on the labor market of Armenia using online job portal posts.

Certified SAFE Agile Practitioner.

Professional Skills

Machine Learning Skills:

- **Language** : Python 3.x, Java
- **Algorithms**: Linear Regression, Logistic Regression, K-Means, KNN, SVM, Naive Bayes, Decision Tree, Ensemble Learning(Bagging, RF), XGBoost, ANN, PCA, RFE, SelectKBest
- **Libraries**: Pandas, Numpy, scikit-learn, SciPy, NLTK, Spacy, Statsmodels, Tensorflow
- **Visualization**: Matplotlib, Seaborn
- **Tools & IDE**: Anaconda, Jupyter Notebook, Spyder

Other Skills:

- **Languages:** Javascript, Typescript, Java
- **Frameworks:** Angular 7+, React, Ionic 4
- **Database:** MySQL
- **Tools & IDE:** Git, SVN, Visual Studio Code, Eclipse

Education

National Institute of Technology, Calicut, Kozhikode, Kerala

Bachelor's of Technology, Graduated May 2017

EE – CGPA: 8.18

KV No.1 CPCRI, Kasaragod, Kerala

Intermediate, Graduated May 2013

PCM : 96.8%