Akshath Agarwal

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SUMMARY

To obtain an entry-level software engineer position and to apply my computer science , Data Structure & Algorithm and Object Oriented knowledge to the development of business software applications.

SKILLS

- **Programming Languages** - Java, Python
- **Tools** - Computer Vision Annotation Tool
- **Operating System** - Windows, Mac OS
- **Topics** - Object Oriented Programming, Deep Learning, Data Structures, Algorithms, Machine Learning

SOCIAL PROFILES

- **LinkedIn** - https://tinyurl.com/AgarwalAkshath
- **Leetcode** - https://leetcode.com/AKI1108/
- **GeeksForGeeks** - https://tinyurl.com/AkshathGFG
  Completed > 200 Questions

PROFESSIONAL DETAILS

- **Software Developer** (Mar'21 - Jul'21)
  JIO

  - Motion Object Tracking (MOT) of Cricket Ball
  - **CVAT** (Computer Vision Annotation Tool)
  - Frame change detection
  - Segmentation of objects using automated tools (**ZVOS - AGNN**) & Annotation Tools
  - Dataset Creation of Cricket shots (Batsmen & Bowler) (Over **1,000,000** Image frames annotated and augmented)
  - Understanding the use of YOLO-v4 , Fast-RCNN , SSD and other Real-Time Object Detection.
  - Appending CSV files for our use case.
  - Provided system maintenance and support procedures for log files update, database tables and stored procedures
  - Performed troubleshooting on software performance issues.

MAJOR PROJECTS AND SEMINARS

- **Age & Gender Recognition Using Convolution Neural Networks**

  We made an algorithm which can guess the gender and age of a person using Deep Learning Model.
  Tasks:
  - Understanding the use of **Convolutions** in Face Feature Recognitions.
  - Creating an algorithm to automate the image input process to the Pre-Processing stage.
  - Building a Deep Learning Model which can dissect the image and learn important features.
    Result :
    Our algorithm had an accuracy of **82.22%** in real-time

- **Loan Prediction using Logistic Regression**

  After understanding about different models of Regression, we chose Logistic Regression and made a loan prediction model.
  Tasks:

- Studied about different **Regression Models** used.
- Dataset Understanding and Appending dataset to add new values.
- Coded Logistic Regression for our use case.
  Result:
  Concluded with F1 score as **0.8903**

CERTIFICATES

- **Algorithmic Toolbox by University of California San Diego**
  Score - 92/100, Certification Link - https://tinyurl.com/AkshathCoursera

ACADEMIC DETAILS

Examination	University	Institute	Year	CPI/%
X	CBSE	Delhi Public School	2016	81.00%
XII	CBSE	Delhi Public School	2018	72.00%
B.Tech/B.E. (Electronics and Communication Engineering)	World Peace University (Deemed)	Maharashtra Institute of Technology	2022	8.19/10.00