

Aishwarya Jayachandran

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EDUCATION

2017 - 2021 Bachelor's in computer science at Vellore Institute of Technology, India (GPA: 8.30/10)
2016 - 2017 Class 12th International Indian School (CBSE), Saudi Arabia (Percent: 76)
2014 - 2015 Class 10th International Indian School (CBSE), Saudi Arabia. (GPA:10.0/10.0)

EXPERIENCE

August 2021 – August 2022 IT/MIS Personnel at Bayan Gardens School, Saudi Arabia
June 2020 - August 2021 Technical Summer Intern IT/IS at Al-Rashid Steel Company, Saudi Arabia

PROJECTS

Automatic Recognition of COVID social distancing restrictions via Video Processing

A neural network-based tool that uses deep learning models and YOLOV3 to detect and report social distancing violations (2m distance and mask violations) in real time.

MOBILENET V2 model trained on a combination of various Kaggle datasets used to detect face masks of individuals on video stream with 96 percent accuracy.

NMS (Non-Maxima Suppression) and Euclidean Distance used to calculate social distance violations in a crowd with a confidence level of 100 percent.

Recognition of Substance Abuse Tendencies in a Person using Facial Features

Developed a system that predicts the probability of alcohol or drug addiction in an individual via facial detection methodologies used to extract the image features and further analysis via SVM and LogisticRegression.

Used Viola Jones Algorithm and Hough Transform to extract 6 different facial features from Sample Set. Used SVM to predict substance abuse with a precision of 64.6%.

Used Logistic Regression to increase predictive power of substance abuse classification with a precision of 86.1%.

Bill Payment System Project

Created a Spring Boot based Back-end Application for an Internal Bill Payment System. Used MySQL as a Database.

In this Application, Users can sign up and pay bills against Vendors (Electricity, Water).

Used Indexing Strategies to speed up query Execution Time by 200%. Also used Redis as a Cache to reduce response time for more frequent requests. The load was simulated using JMeter.

Used Docker to build and deploy the Application on AWS EC2/ECS. Also used AWS RDS for MySQL and AWS ElastiCache for Redis.

Set up CI/CD Pipelines with GitHub Actions to develop features more quickly.

SKILLS

Programming Languages Java, C++, Python

Tools and Technologies Spring Boot, MySQL, Docker, Git