

# Amra Nadaf

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## EDUCATION

### D Y Patil College of Engineering & Technology

Computer Science AIML (B. Tech)

**CGPA: 8.92**

#### Clubs/Activities:

- Coding Club President
- Spearheaded engineer's day exhibition & activities
- Managed coding competitions

## EXPERIENCE

### Quality-kiosk Technologies Pvt. Ltd

#### -Performance Engineer Intern

- Played a key role in enhancing the performance and scalability of back-end architectures across diverse client projects, including **ICICI Bank**.
- Collaborated closely with cross-functional teams to analyze performance requirements, identify bottlenecks, and develop effective solutions.
- Utilized Dynatrace monitoring tool to monitor and analyze application performance in real-time, proactively identifying and addressing performance issues to optimize user experience.
- Conducted comprehensive performance testing and analysis, including
  - load testing, stress testing, and capacity planning, to assess system performance under various scenarios.

## INDEPENDENT PROJECTS

### - TumoVision: Brain Tumour Detection, Segmentation, and Contouring Algorithm

- Co-authored a research paper on **Tumovision**, a custom algorithm for brain tumour detection using **LSTM**, **RNN**, **CNN**, and deep learning models.
- Implemented advanced **segmentation** and **contouring** techniques for tumour localization using **OpenCV** and **Keras**.
- Used **Matplotlib** for data visualization and performance analysis of the model.
- The project involved designing a multi-layer neural network architecture to achieve accurate tumour detection.

### - Deep Learning Astronomical Objects Classifier

- Developed a **Convolutional Neural Network (CNN)** using **TensorFlow** and **Keras** to classify astronomical objects, achieving 94% accuracy.
- Pre-processed data using **Pandas** and **NumPy** for efficient model training.
- Implemented a front-end using **HTML**, **CSS**, and **JavaScript** to make the application user-friendly.
- Visualized model performance with **Matplotlib** to track training and validation accuracy.

### - Sign Language Detection and Blind Assistance

- Designed and trained a sign language detection model using **computer vision** and **deep learning** techniques, utilizing **OpenCV** and **TensorFlow** for object recognition and distance detection.
- Developed a Python-based **GUI** to assist visually impaired users with object and distance recognition.

## SKILLS

### Programming Languages:

Python, Java, C++, R, SQL

### Machine Learning & AI:

Supervised Learning  
(Classification, Regression)  
Unsupervised Learning (K-Means Clustering)  
Algorithms: Support Vector Machines (SVM), Decision Trees, Random Forests, Neural Networks, Deep Learning

### Data Analysis & Visualization:

Pandas, NumPy, Matplotlib, Seaborn, Scikit-learn  
Power BI, Tableau

### Databases & Cloud Platforms:

MongoDB, SQL  
AWS, Google Cloud Platform (GCP)

### Performance Monitoring

#### Tools:

Dynatrace

### Libraries & Frameworks:

TensorFlow, Keras, OpenCV, Selenium

### Soft Skills:

Team Leadership,  
Communication, Collaboration,  
Emotional Intelligence

## CERTIFICATES

**Computer Visions Boot camp with Python(open CV)- YOLO SSD**

-Udemy

**Programming Data structures and algorithms using Python**

-NPTEL