Rushikesh Desai

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EDUCATION

- **D.K.T.E Society's Textile & Engineering Institute** Ichalkaranji, India
  Bachelor of Technology - Computer Science & Engineering; GPA: 7.18 *August 2016 – July 2020*

  Courses: *Data Structures and Algorithms, Web Technologies, Cyber security, Data Communication and Networking, Database Engineering, Artificial Intelligence and Deep Learning, Machine Learning*

SKILLS SUMMARY

- **Programming**: Python, C#, C++, JavaScript, SQL, MongoDB, React.js, Node.js, Express.js
- **Tools and Frameworks**: Git, OpenCV, Scikit, NLTK, TensorFlow

EXPERIENCE

- **Flairminds Software, Pune** Remote
  Data Scientist (Full-time) *Oct 2022 – Current*
  - Building machine learning models for NLP, computer vision with tensorflow, YOLOv7, Google Cloud Platform.
- **E-venu Computer, Sangli** Remote
  Full-stack developer (Intern developer, Full-time) *Sept 2021 – Aug 2022*
  - Implemented server optimizing techniques like web speed optimization, compression using GZIP, caching, and database optimizations like data modeling & sizing memory.
  - Developed product-supply chain system using JavaScript, Node.js, React.js, MongoDB framework.
- **Rheal Software, Pune** Remote
  Junior Software Developer (Full-time) *Nov 2020 – July 2021*
  - Worked on development of Healthcare Management system and Online Court system for different counties using C#, JavaScript, MVC framework.
- **College of Engineering, Pune** Pune
  Student Developer (Internship, Full-time) *May - 2018*
  - Implemented project in Machine learning entitled 'Predicting the ratings/popularity of movies' using python by scrapping the comments from twitter. Used TF-IDF, TextRank with OCR for text classification.
    Libraries: Pandas, NumPy, Scrapy, Beautiful-soup4, Tweepy.

PROJECTS

- **Alexa Enabled Voice Controlled Devices in Car:**
  A voice-controlled system that operates on user's voice command using amazon-Alexa to communicate with car equipment. Used speech recognition algorithm using amazon Lambda skill sets, Raspberry-pi, ESP8266 to control specified device.
  IOT kit and tools: - Raspberry-pi, ESP8266, Amazon-Alexa eco dot, AWS Lambda, SSH.
- **Online toll collection of vehicles by scanning number plates:**
  Developed Image recognition model that identifies and classifies vehicles. Extract plate number from video camera at toll station. Implemented knowledge-based OCR model (optical Character Recognition) for text-based identification and classification. VGG-16 and YOLO models were trained to extract visual clues.
  Python Libraries: - ski-image, OpenCV, tensorflow, and imutils.
- **Ant-Bot project, E-Yantra Robotics Challenge (IIT Bombay):**
  Created robot using servo motor, raspberry-pi, Arduino, camera, line-sensor, and robot-claw, to perform automation tasks. Programed the Raspberry-pi and Arduino to get instruction by scanning QR code and perform specified task using claws and motors following throw the map.
  IOT kit and tools: - Raspberry-pi, Arduino, line-sensor, OpenCV, matplotlib, camera.
- **Reinforcement gameplay of MARIO:**
  Developed AI powered gameplay through reinforcement learning, used CNN to train neurons by adjusting their weights every time when Mario moves. Tuned various hyperparameter to optimal scale in order to maximize accuracy. Used multiple ML Algorithms and compared their accuracies. (www.youtube.com/channel/UCJjdWyLtrw7R20EbQ_Wts1A)
  Tools & Libraries: - Lua, OpenNMT, lua/NVIM, AI sandbox, bullet-physics, Ogre3D
- **Online Learning and teaching platform:**
  Developed a web application for online course provider platform which allows to learn multiple courses with resources like videos, audios and documents. Developed the entire backend logic in Node server and used React as the frontend.
  Tech-stack: React, Express, Node, MongoDB.

COURSES

- Programming Data structures using Python (NPTEL).
- Structuring Machine Learning, Deep Learning and Neural Networks (Coursera).
- JWT Authentication course, Redux & React Tutorial (NetNinja).

ACHIEVEMENTS & EXTRA-CURRICULUMS

- **Best Coder** and **Best Project** award - In internship at COEP - May 2018
- **Winner** - National level three-stage coding competitions, D.K.T.E. - November 2017
- Live member of **RYLA** and **VEER SEVA DAL** (Social Working Organization).
- Played chess & football (as Left-Defender, in IAFA team, won 1st place twice & 3rd once)
- **Languages**: Fluent in Marathi, Hindi, English & Elementary in Spanish.