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, Database Management Systems, System Programming and Operating Systems, Computer Networking, Cloud computing, Artificial Intelligence, Machine Learning*

SKILLS SUMMARY:

- Programming: Python, Django, flask, C++, React, Node, C#, SQL, MongoDB
- Tools and Frameworks: Docker, Elastic-search, Scikit, NLTK, OpenCV, TensorFlow, Git

EXPERIENCE:

- **Flairminds Software, Pune** — Pune
  Data Scientist (Full-time) — *Oct 2022 – June 2023*
  - Built machine learning models using NLP models like BERT, TF-IDF along basics of computer vison using VGG, Inception, Yolo-NAS object-detection along with data pipelining, ETL process.
  - Hyperparameter tuning of machine learning and deep learning models with development & deployment using Flask, Django, Docker. In addition to Data visualization tools, Tableau, Excel.
- **E-venu** Computer**, Sangli** — Remote
  Full-stack developer (Full-time) — *Sept 2021 – Aug 2022*
  - Developed Product-Chain Supplement system using JavaScript, Node, React, MongoDB framework
  - Implemented Optimizing techniques on Node.js server such as web speed optimization, compression using GZIP, caching along with MongoDB database optimization by data modeling & sizing memory.
- **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.
  - Developed client specific customizable code using C#, JavaScript, MVC framework.
- **College of Engineering, Pune** — Pune
  Student Developer (Internship, Full-time) — *May - 2018*
  - Implemented Machine learning project, *Predicting the ratings/popularity of movies*, by scrapping the comments from twitter comments, and performing data visualization. Used TF-IDF, TextRank on top of knowledge-based OCR for text classification. Libraries: Pandas, NumPy, Scrapy, beautifulsoup4

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 Amazon-Alexa with speech recognition algorithm which process skill sets using amazon Lambda and pass instruction to Raspberry-pi, further used with ESP8266 to pass instruction details to 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 robot to get instruction by scanning QR code and perform specified tasks in the given map.
  IOT kit and tools: - Raspberry-pi, Arduino, camera, line-sensor, OpenCV, matplotlib.
- **Reinforcement gameplay of MARIO:**
  Developed AI powered gameplay through reinforcement learning, passed it to CNN to train neurons every time Mario moves. Tuned various hyperparameter to optimal scale in order to maximize accuracy. Tools: - Lua, OpenNMT, lua/NVIM, AI sandbox, bullet-physics, Ogre3D: youtube.com/channel/UCJjdWyLtrw7R20EbQ_Wts1A
- **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. Tech-stack: React, Express, Node, MongoDB.

COURSES:

- Programming Data structures using Python (NPTEL).
- Machine Learning, Deep Learning and Neural Networks (Coursera).

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**,** IAFA team, won 1st place twice & 3rd once)
- **Languages**: Fluent in Marathi, Hindi, English & Elementary in Spanish.