PRADYUMNA RAHUL K

pradyumnarahul.me github.com/1nF0rmed +91 8317465401

EXPERIENCE

08/2018 – Present. **Freelance Software Developer**

*1.5 year(s).***Self-Employed** – *Remote*

- Building containerized services and systems using **Docker** and **Docker-compose**.
- Built **Python/Flask/MySQL** website for clients specialized in property management and property value prediction.
- Developed *high-performance, shared memory image processing API* in **Python** using **Django** and **Tensorflow** (TensorCore).
- Wrote code with **Agile** process using **Jira** and **Continuous delivery** with **Github** and **BitBucket**.
- Worked on a Social media sentiment analysis platform that uses distributed streaming with the help of **Apache Kafka** and **Zookeeper** then processed through a **Deep learning pipeline** using **Tensorflow** and **Keras**.
- Built a scalable platform for transportation services using **Python Django**, **MongoDB**(NoSQL) and successfully deployed it to **AWS** (Amazon Web Services)
- Built a general platform for patient and doctor interaction with **Guided medical diagnosis** using **Python Django**, **Tensorflow** Keras and deployed to **Google Cloud Platform**.

04/2017 - 05/2018 **Freelance Developer and Teacher**

. *1 year(s).* **Self-Employed** – *Remote*

- Built desktop application for a client(college) on student information management using VB and C# with Oracle SQL database.
- Tutored university students on Data Structures and Algorithms using C++ and Python.
- Taught fundamentals of Linux terminal and usage to university students.

PROJECTS

- **STUDENT RESULT ANALYSIS**
  - A platform that allows the college to upload student results sheets and perform statistical analysis on the given data.
  - Every teacher is allowed to view and analyze students' results based on several parameters(section, year, etc.) and display graphical visualization of the collected data to gain insight.
  - Built using a 3-tier architecture.
  - **Languages**: Java(backend), HTML/CSS/Javascript(frontend)
  - **Libraries**: MongoDB driver (NoSQL)

- **MEDICAL DIAGNOSIS EXPERT SYSTEM**
  - An expert system that provides medical diagnosis to identify and treat common ailments through a chat interface.
  - The medical diagnosis system uses the knowledge base that we have collected from several experienced doctors.
  - The system uses various NLP techniques for intent classification and sentiment analysis.
  - Based on the information collected using the chat from the user, a diagnosis is provided using k-nearest neighbors.
  - **Languages**: Python(backend), HTML/CSS(frontend)
  - **Libraries**: RASA(chat interfacing), Numpy, Scikit-learn
  - **Link**: github.com/1nF0rmed/MedicalDiagnosisExpertSystem

- More are available at: github.com/1nF0rmed

EDUCATION

QUALIFICATION	SCHOOL/ COLLEGE	BOARD	CGPA/ PERCENTAGE
B.E. (Information Science)	BMS College of Engineering, Bangalore	Autonomous	8.4 (CGPA)
Diploma in Computer Science	M.V.J College of Engineering	Board of Technical Education	84.6 (Percentage)

MISC

- **2nd place Hedera Hashpgrah Hackathon 2018.** Built a decentralized platform for city infrastructure management.
- **2nd place Matic Network Hackathon 2019.** Built a platform that connects farmers directly to consumers where the farmer funds the farmer for crop growth.
- **1st Place Engineers Fair 2017, VITM** . Built a home assistant robot that interacts on a question and answer basis with support for reminders, active facial recognition and home management.