RITHISH RAMESH

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Education

Master of Science: Computer Science at **California State University, Fresno** - Fresno, CA   Present
Coursework includes- Machine Learning, Game Development and Structure of Programming   **GPA: 4/4**
Bachelor of Engineering: Computer Science at **S J B Institute Of Technology** - Bangalore   05/2017
Coursework includes- Data Structures, Design and Analysis of Algorithms, Database and Management Systems-SQL, Python Application Programming, Artificial Intelligence, Machine Learning, Big Data Analytics , Data Mining and Data Warehousing, OOP with Java, Advanced Java and J2EE, Cloud Computing, Programming in Java, Compiler Design.   **GPA: 7.8/10**

Work History

Teaching Assistant and Research Assistant(TA and RA): California State University, Fresno   **Present**
- Worked as a Teaching Assistant for the course Algorithmic Thinking which includes the Python overview, Object Oriented Programming and Algorithms based on Data Structures.

Artificial Intelligence and Machine Learning Intern: *Tequed Labs – Bangalore, Karnataka*   *07/2019 to 08/2019*
- In a period of two months, a "Facial Recognition system" was implemented with a view to recognise facial expressions using a Reinforcement Machine learning algorithm to execute the recognition and image processing tools.
- Designed a web application to project the results using Django web Framework.

Student Intern: *Ethnotech Academic Solutions– Bangalore, Karnataka*   *01/2019 to 02/2019*
- Back-end development using user stories of two different applications in C and C++ with the inclusion of Programming utilizing Java programming on Data Structures.

Internet of Things (IOT) Intern: *Tequed Labs– Bangalore, Karnataka*   *07/2018 to 07/2018*
- Development of IOT based application for "Pothole Detection" using ultrasonic sensor and GPS Modules.

Web Programmer Intern: *Ethnotech Academic Solutions– Bangalore, Karnataka*   *02/2018 to 02/2018*
- Development of web application for "Blood Bank database Management System" using JavaScript and HTML for Front-end and Java for Back-end development.

Certifications and Publications

- **IBM Data Science Professional Certificate,** *2021.*
  - The Professional Certificate includes: Data Science, Python Programming, Data Analysis, Pandas, Numpy, Ipython, Cloud Databases, Relational Database Management System (RDBMS), SQL, Predictive Modelling, Data Visualization (DataViz) and Model Selection with IBM Watson Studio.
- **Certificate for Elements of AI,** *2020.*
- **Certification of Completion in Django-** *LinkedIn Learning, 2020.*

Publications

Text Extraction from Electronic Health Records for predicting the Patient diabetics Level by Machine Learning
- Electronic Health Records (EHRs) are primarily designed to make it easier for individuals to digest medical records that appear to be difficult to comprehend.EHRs are real-time systems in which patients submit medical records that are evaluated and stored digitally so that they can be accessed at any time.
- The aforementioned feature would be helpful for patients to get an idea about the type of diabetes that includes Type-1, Type-2, Pre-Diabetes and No Diabetes which will be predicted using various Machine Learning algorithms such as Random Forest and LightGBM which showed a prominent result and best obtained accuracy.

Smart Healthcare ChatBot for Prognosis of Treatments and Disease Diagnosis using Machine Learning
- Artificial Intelligence techniques are used in this HealthCare Chatbot to process text input and diagnose diseases correlated with the symptoms provided by the user.
- The HealthCare Chatbot implemented here is a user-friendly platform which predicts the probable diseases and the home remedies we can imply to cure based on the symptoms observed by the user in their knowledge.

Skills

- **Programming and Scripting:** Python,C,C++, HTML, JAVA
- **Technology-** Machine Learning, Artificial Intelligence, Game Development, Web Technology
- **Python Libraries/ Tools:** Django, Tensorflow, Pandas, Keras, Sklearn, Pytorch.
- **Data Analytical Tools:** Apache Spark, Hadoop
- **Databases:** MYSQL, SQL, MongoDB
- **Operating Systems:** UNIX, LINUX, WINDOWS
- **Other Tools:** AWS, Android Studio, Microsoft Visual Studio.