Heet Dave

Software Engineer

An aspiring software engineer with goal to become Industiral Researcher with interest in Machine Learning and Natural Language Processing.

heetdave@outlook.com
+91-7227095660
Ahmedabad, India
linkedin.com/in/heetdave

WORK EXPERIENCE

Software Engineer
Endurance International Group

12/2018 – Present

Tasks

- Development of web domains management panel using Java Spring Boot and React JS.

Software Engineer
FinTech Global Center

05/2018 – 12/2018

Tasks

- Developed web application for trading platform administrators to manage users and their access and to distribute software using autogenerated URL.
- Developed SFTP client using C++ to send trading information to client securely
- Created CI/CD pipeline using Jenkins and Docker.

Mentor: *Mr. Pratik Joshi*

Research Intern
Indian Space Research Organisation (ISRO)

01/2018 – 05/2018

Tasks

- Developed a tool to automate "Software Requirement Specification (SRS)" document checking process using Neural Network and Natural Language Processing.
- Used probabilistic N-gram language model and Part-of-Speech tagging to get input features of neural network
- Used back propagation and forward propagation for the training of neural network and SRS acceptance prediction.
- Tools/Language: Python, NLTK library, Stanford NLP tools

Mentor: *Mr. Akhilesh Sharma*

Summer Research Intern
DA-IICT, India

05/2017 – 07/2017

Tasks

- Developed an Android application for P2P network to share very large files over unstable and low bandwidth connection by dividing the file into small chunks.
- The app keeps track of chunks for each file using Hashmap and Binary string data structure which eliminates need to re-transfer whole file in case of connection drop.
- Tools/Language: Android Studio, Java

Mentor: *Mr. P S Kalyan Sasidhar*

SKILLS

C | C++ | Java | Python | ASP.NET MVC | Javascript | jQuery | C# | Docker | Jenkins | AJAX | SQL | Amazon S3 | Git | Scrum | HTML

PROJECTS

Alzheimer disease detection using Neural Network

- Developed a Neural Network based classifier to detect Alzheimer's Disease using both Multilayer Perceptron (MLP) and Radial Basis Function (RBF) to compare their results.
- Tools/Language: MATLAB

Topic wise classification of news articles

- Developed Naive Bayes Classifier to categorize news articles according to topics. Classifier was trained using '20 newsgroup' dataset.
- Used 'Bag of Words' model, normalization, Porter stemming algorithm, stopwords removal and Laplace smoothing. Got F1 score equal to 0.78.
- Tools/Language: Python, NLTK library

Smart traffic timer system using OpenCV

- Developed system which can control traffic signal timers according to traffic density, determined using Image Processing techniques like background subtraction and blob detection.
- Tools/Language: Python, OpenCV

EDUCATION

B.Tech in Information and Communication Techlology
Dhirubhai Ambani Institute of Information and Communication Technology (DA-IICT), India

08/2014 – 05/2018 *GPA: 7.06*

POSITION OF RESPONSOBILITY

Core committee member, Annual Festival Committee and Student Body Government

Was responsible for organizing the event and sponsorship. As a team managed to raise $85,000 .

TECHNICAL ELECTIVES

Information Retrieval | Neural Networks | Operating Systems | Data Structures and Algorithms | Computer Networks | Database Management Systems