

RISHI VARDHAN K

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Tirunelveli ◇ India

ABOUT

I am an Undergraduate Sophomore of Computer Science and Engineering interested in a career leaning with research. I am a highly motivated individual with interest towards Machine Learning and Computer Vision.

EDUCATION

Sri Sivasubramaniya College Of Engineering

Chennai

B.E. in Computer Science & Engineering

August 2018 - Present

Member of SSN Coding Community

Member of SSN Developers Community

Pushpalata Vidya Mandir

Tirunelveli

High School: Computer Science; CBSE;

March 2018

Elected to Inter-House Captain for School Politics in 2017

Elected to President of Computer Club in 2016

Elected to Inter-House Vice Captain for School Politics in 2016

Class X 10 CGPA; Class XII 94.8% (474/500)

EXPERIENCE

Solarillion Foundation

April 2020 - Present

Undergraduate Teaching Assistant

Chennai, India

- Currently working on automating the server applications by developing suitable bots for maintenance.
- Assisted new orientees on entry level python and machine learning assignments.

Solarillion Foundation

September 2019 - Present

Undergraduate Research Assistant

Chennai, India

- Currently working on research dealing with adversarial impact on image deep learning models.
- Worked on predicting flight delay affected by historical flight performance and weather data.

TECHNICAL STRENGTHS

Computer Languages

Python, C, Java, Shell, C++, HTML, CSS, SQL

Machine Learning

scikit-learn, Keras, Tensorflow

Frameworks

Pandas, Simple-Transformers, Numpy, Git

PROJECTS & RESEARCH

Named Entity Recognition Model on Chemical Report Data

April 2020 - Present

Task 1 and Task 2, ChemU Lab, CLEF - 2020

Chennai, India

- Working on implementing transformers approach to solve a named entity task.

Multi Label Classification model on Medical codes corpus

February 2020 - May 2020

Task 1 and Task 2, eHealth Lab, CLEF - 2020

Chennai, India

- Implemented Transformers Approach to classify medical documents on ICD10-CM and ICD10-PCS codes
- Models worked on were BioBert, XLNet, Electra.

Majority Voting approach to Text Classification

October 2019 - February 2020

SemEval 2020 Task 4 Common Sense Validation and Explanation

Chennai, India

- Worked on developing a majority voting classifier over BERT, XLNet and MicroTC to predict relevance on common-sense data.
- Generated Text on context of common sense with Neural Machine Translation Model (NMT).

Early Risk Prediction model on Reddit users data

March 2020 - May 2020

Task 1 and Task 3, eRisk Lab, CLEF - 2020

Chennai, India

- Developed a binary text classification model over Reddit users data to predict the chance and amount of probability that a user is susceptible to risk of self harm.
- Models worked on were AdaBoost, Extra Trees, Gradient Boosting, Bernoulli Naive Bytes and CNN.

Flight Delay Prediction

September 2019 - December 2019

Classification and Regression Model, Solarillion

Chennai, India

- Worked on developing a Machine Learning model to predict whether a flight will be delayed or not and the amount of delay if occurred.
- A pipeline model from Classification to Regression was developed on consideration of historical flight performance and weather data.

COURSES AND CERTIFICATION

Machine Learning - Stanford Course on Coursera

Convolutional Neural Networks for Visual Recognition - Stanford CS231n

Web Development - Frontend Web Development Course on Udemy

Android App Development - Android App Developer Course on Udemy

Computer Hardware - NIIT A+

Computer Networking - NIIT N+

University Courses - Python Programming, C Programming, Discrete Mathematics, Design and Analysis of Algorithms, Data Structures, Database Management Systems, Operating Systems, Computer Organisation and Architecture

ACCOMPLISHMENTS

CBSE Regional Model Making Competition - Represented high school under the eco-safety category.

Agni Model Making Competition - Won the district level model making competition under Smart Technology category.

EXTRA CURRICULAR ACTIVITIES

NSS - Involved in various community cleaning, awareness workshop activities concerning NSS Community.

Science Exhibition - Organised a 3D theatre viewing experience on the context of flora and fauna awareness in high school.