RISHI VARDHAN K

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Chennai ⋄ 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
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 recognition 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.

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.

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).

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 occured.
· A pipeline model from Classification to Regression was developed on consideration of historical flight performance and weather data.

RELEVANT 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.