Ramesh Ketan

2200 Canyon Boulevard #4,Boulder,CO-80302
Ketan.R@colorado.edu | 720.254.2379

EDUCATION

CU BOULDER
MS in Computer Science
Expected May 2021 | Boulder, CO
Cum. GPA: N/A

NIT KARNATAKA
B. Tech in Information Technology
June 2019 | Surathkal, India
CGPA: 7.98 / 10.0

SJBHS
May 2015 | Bangalore, India
Cum. %: 92.8 / 100

LINKS

LinkedIn:// Ketan Ramesh
GMail:// ketanramesh22

COURSEWORK

GRADUATE
Machine Learning
Design and Analysis of Algorithms
Natural Language Processing
Object Oriented Analysis and Design

UNDERGRADUATE
Computer Vision
Soft Computing
Data Analytics
Information Retrieval
Human Computer Interaction
Linear Algebra
Computer Graphics
Software Engineering

SKILLS

PROGRAMMING

Languages:
Python • Java • C++ •
C • HTML • CSS • PHP

Frameworks/ Technologies:
MySQl • Keras • OpenCV • Visual C++
MFC • Tensorflow • LaTeX

EXPERIENCE

DEFENCE AVIONICS RESEARCH ESTABLISHMENT - DRDO, BANGALORE | Software Engineering Internship
May 2018 – July 2018 | Bangalore, India

- Designed and Implemented a Visual Studio / MFC based module used for Flight Path Display and Analysis used in Mission Analysis Software, DJAG.
- Integrated OpenStreetMaps data with Visual C++ / MFC to plot flight path and positioning.
- Implemented a Radar position analysis sub-module for Post Mission Data Analysis.

RESEARCH

NIT KARNATAKA | Undergrad Research
Aug 2018 – May 2019 | Surathkal, India
Worked on a Visual Question Answering model incorporating an external knowledge base. Used a custom Wikipedia API to retrieve external knowledge, based on subject of the image and used NLP procedures to extract useful information. The model was successful in answering most relevant questions and achieved good accuracy rates.

NIT KARNATAKA | Undergrad Research
Jan 2018 – May 2018 | Surathkal, India
Worked on an Image Captioning model by merging characteristics of Show and Tell and, Attend and Tell models. The merged model resulted in an increased accuracy of around 2%. The model also showed significant increase in the BLEU score tests.

PROJECTS

USING ADVERSARIAL DEEP LEARNING FOR BINARY MALWARE DETECTION
Used Deep Neural Networks for Malware detection. The project aimed at creating malware files using pre-existing Saddle point formulation. A statistical study of files based on the DLL calls to obtain a comprehensive understanding of the malign and benign files used for testing.

USING ATTENTION FOR MACHINE COMPREHENSION
The project aimed at answering questions asked based on a given context paragraph. Used question based attention as primary resource to formulate the answers. The model performed well on SQuAD tests. Further improvements pertaining to using paragraph attention were discussed.

EXTRA CURRICULAR

- Football
- Cricket

LANGUAGES KNOWN

- English
- Tamil
- Kannada
- Hindi