AISHWARYA RAJASEKARAN

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EDUCATION

University of Massachusetts Amherst   Expected : May 2021
MS in Computer Science , Concentrating in Data Science   Amherst, MA
Courses : Neural Networks, Algorithms for Data Science, Systems for Data Science

Indian Institute of Information Technology, Design and Manufacturing -Kancheepuram   Jun 2015 - Jun 2019
B.Tech in Computer Engineering, GPA : 9.18/10   Chennai, India
Courses : Programming and Data Structures, Design and Analysis of Algorithms, Database Systems, OOPS Practice ,
        Designing Intelligent Systems, Entrepreneurship and Management Functions

PROFESSIONAL EXPERIENCE

Research Intern   May - Oct 2018
Robert Bosch Centre for Data Science and Artificial Intelligence Lab, IIT Madras.   Chennai, India
- Worked under Prof Balaraman Ravindran on classification of retinopathy .
- Developed a CNN model (Pytorch) with an accuracy of 79.2% trained on 700 images
- Validated the model by applying visualization techniques (Occlusion, Activation maps)

Full Stack Web Developer Intern   May - July 2017
"IDeaS Lab, *Centre for Product Design and Manufacturing, IISC Bangalore* "   Bangalore, India
- Worked under Prof Amaresh Chakrabarti on software enhancement of InDeaTe Tool
- Resolved software (Django framework) issues and designed a logical model of database.
- Prepared a documentation for existing software to aid developers in the future

Summer Intern   May - Jun 2015
"Gas Turbine Research and Establishment, DRDO"   Bangalore, India
- Implemented encryption and decryption of text files using DES algorithm in Java

PROJECTS

Interpretability of Deep Learning Models for Image Classification   Oct 2018 - April 2019
B.Tech Thesis guided by Dr Balaraman Ravindran (IIT Madras) and Dr B Sivaselvan (IIITDM Kancheepuram)
- Proposed a post hoc interpretation for CIFAR 10 dataset using Approximate KNN using Locality Spatial Hashing
- Introduced conformity metric to estimate the confidence on model.

Fingerprint Recognition Based Portable Attendance System   Jan - Mar 2018
Funded by Design Innovation Center, IIITDM Kancheepuram
- Designed and developed a compact device that is used to monitor class attendance.
- The information can be accessed using the web portal. Saved time spent on taking roll calls in large lecture class

Heart Risk Prediction Based on Data Mining Techniques   Jan - Mar 2018
Coursework project – Data Mining
- Collaborated with Cardiologist and implemented a logistic regression model to predict heart failures in post-transplant
  patients with an accuracy of 92% trained on dataset of size 300.

SKILLS

Programming / Scripting Languages: C, C++, Python,SQL   **Frameworks and Tools:** Pytorch, Django, Hadoop, Git

ACHIEVEMENTS

- Lead the team Nicostop at Canada India Acceleration Programs for Women Entrepreneurs'18 - Top 15/1600 teams
- Won Healthcare Startup Hackathon and prototyped a smoking cessation device during incubation period
- Conceptualized and led the Mentor Mentee Program team of 30 to help the 250 juniors with academic and social life
- In the Top 1% of Computer Science Batch 2015 (80 students)