

Spoorthy Bhat

Machine Learning and AI Enthusiast

San Diego, CA
spoorthy.bhat.77@gmail.com
spoorthybhat.github.io
linkedin.com/in/spoorthy-bhat/

Work experience

Microsoft IDC

05/2017 - 07/2017

Software Developer Intern

Designed an AI powered face morphing chatbot that engages users with fun morphed images of their faces including face paints, GIFs and celebrity lookalike. Machine learning techniques were used for face morphing.

Indian Institute of Science

05/2016 - 07/2016

Research Intern

Worked on image super-resolution using a deep CNN as a global optimization of state-of-the-art sparse-coding techniques. The technique was tested on different kinds of datasets and was able to outperform sparse-coding method.

Publications

Progressively Balanced Multi-class Neural Trees

2017 - 2018

Twenty Fourth National Conference on Communications (NCC) 2018

Designed a decision tree with a perceptron at each node to enhance decision-making. Tree structure allows some data points to be classified with fewer nodes, hence reducing the complexity where possible. Data-balancing has also been used at each node to counter the inherent skewing property of decision trees. This ensures all nodes are trained on balanced data, thus improving accuracy

Projects

Automatic Lyrics Generation

An NLP algorithm that can automatically generate random song lyrics of any chosen genre. Allows you to select the genre and get different lyrics each time

Image deblurring

A deep CNN that allows you to input a blur image and get back a clear image. Image deblurring can be used as a preprocessing step for other applications.

Education

University of California San Diego

2018 - 2020

MS in Computer Science

Specialisation in Machine Learning

Indian Institute of Technology, Guwahati

2014 - 2018

B. Tech in Electronics and Communication Engineering

Minor: Computer Science

CPI: 9.31/ 10.00

Skills

Programming: Python, C++, C#, MATLAB

Certifications: Deep Learning Specialisation (Set of 5 Courses), Coursera

Others: Machine Learning, Tensor Flow, Image Processing, NLP, Deep Learning

Awards

Kishore Vaigyanik Protsahan Yojana (KVPY) : Total of 281 merit scholarships were awarded at all India level

National Talent Search Examination (NTSE): Total of 750 merit scholarships were awarded at all India level