Naresh R

nareshmdu@gmail.com
+91-7872833729

EDUCATION

Indian Institute of Technology, Kharagpur
Spring 2018

B. Tech + M. Tech in Computer Science and Engineering

LANGUAGES

C++, Python, Java, JavaScript, Ruby, HTML, CSS

TECHNICAL SKILLS

OpenCV, Node.JS, Angular, Express, MySQL, MongoDB, Robotic Operating System (ROS), Git, Linux, Android, Sass

POSITIONS OF RESPONSIBILITY

Captain Team LBS
OpenSoft 2017

Executive Editor
Technology Literary Society

General Secretary
CodeClub IITKGP

Core Team Member
Google Students Club

PROFESSIONAL EXPERIENCE

Backend Intern @ ezDI, Ahmedabad
May 2016 – June 2016

- Helped improve response time of full-table queries by an order of magnitude by automating migration and replication of data from AWS RDS to Redshift using a custom server.
- Implemented POCs to integrate a Business Intelligence solution into the platform, and set up base models to take advantage of reusable SQL views.

Software Team @ Autonomous Underwater Vehicle Research Group
February 2015 – April 2016

- Tech lead for Image Processing for former national championship winning bot at Autonomous Underwater Vehicle Research Group, IITKGP.
- Improved bot's ability to adapt to changing lighting conditions underwater with Neural Network based adaptive image segmentation.
- Implemented several other algorithms in OpenCV and ROS for the bot to complete various tasks autonomously.

PROJECTS

Automated entity comparison for Wikipedia text corpora February 2017

- Implemented a comparative text mining task using a graph-based framework to model and measure semantic commonality to establish meaningful comparisons. Wikipedia's distinct features were leveraged upon to further improve results in the context of Wikipedia articles.

StoI (SMS to Internet) December 2016

- Built an android app that provides basic internet access including Google Maps navigation, Duckduckgo search, Zomato reviews, etc. without a data connection.
- Communication with the server was done using Twilio's SMS APIs.

Lyrics generator using neural networks November 2016

- Created a lyrics generator that generates a new song in given artist's style.
- A database of song lyrics was used to train a Long Short Term Memory (LSTM) neural network, implemented with Tensorflow, that learns artists' styles of writing, including words, rhymes, chorus, etc.

Lowpolify (Low-poly art generator) October 2016

- Made a web app that generates a low-poly version of any given image using Delaunay Triangulation, coupled with noise reduction, edge detection, randomization and parallel processing for fast and clean results.

Selene (A community based music-recommendation engine) April 2016

- Built an Android app that serves as a social music-recommendation engine based on YouTube. It extracts music preferences from Facebook friends less than 5 nodes away in the social graph and recommends tracks based on the user's preferences.

Retrieving salient sentences from Reddit AMAs April 2016

- Built a summariser that summarises comments from /r/iAMA, clustered by broad and fine topics, implemented using Lexrank and Alchemy API.