MEDAM MAHESH | 15AE30032

AEROSPACE ENGINEERING (M.Tech Dual 5Y)

EDUCATION

Year	Degree/Exam	Institute	CGPA/Marks
2020	M.TECH Dual Degree 5Y	IIT Kharagpur	7.32 / 10
2015	Intermediate	Sri Chaitanya Junior College	98.6%
2013	Matriculation	Sri Chaitanya Techno School	9.7 / 10.0

COURSEWORK INFORMATION

Machine Learning | Coursera

Convolutional Neural Networks | Coursera

Data Structures and Algorithms

Computer Applications in Aerospace Engineering

INTERNSHIPS

Data Science Intern, Pyramid Softsol Pvt. Ltd.   May 2018-July 2018

Built an application for real-time detection of pills of different sizes using *Tensorflow Object Detection API*
Applied Transfer Learning on ImageNet pre-trained *Single Shot Multibox Detector model* built on Inception network
Tuning of hyperparameters was done using *Bayesian Optimization* and a mean Average Precision of 90.7% was achieved
Developed a Healthcare AI virtual assistant which can book appointments, take vital readings etc., using *RASA.ai*

Web Developer Intern, Chemical Shoppe Pvt. Ltd.   May 2017-July 2017

Developed the *ecommerce platform* for the startup using PHP for backend and HTML, CSS and jQuery for frontend
Improved the status feature in orders and also updated the invoice generation mechanism in accordance with GST.
Implemented custom web-scrapers using *Selenium* for various websites to aid in the efficient cataloguing of the platform

PROJECTS

Product Review Chrome Extension

Developed a chrome extension that *analyzes customer reviews* of smartphones on Flipkart and Amazon websites
Designed a pipeline for *auto-cataloguing* of new phones using cronjobs to generate new ratings once per day
Tuned a *Naive Bayes model* to classify and give percentage ratings on different attributes of smartphone.
Used *Puppeteer* for automated scraping of reviews to generate ratings and *Flask* for making API

Doctor Handwriting Recognizer

Developed a web application to digitize the image of Handwritten Doctor Prescription by recognizing the content
Used *Peter Norvig method* for spell-correction on a custom corpus made from PubMed Records
Character recognition of the prescription images was done using *Google Cloud Vision API*

COMPETITION/CONFERENCE

Code.fun.do SHOWCASE 2017, Microsoft   Nov 2016-Jan 2017

Qualified to the finals of *code.fun.do SHOWCASE 2017* held at Microsoft India Development Centre, Hyderabad
Developed an interactive *Railway Inquiry bot* that provides information regarding trains and tickets on Messenger
Designed the dialogue management pipeline for the smooth-functioning of the bot through different topics
Used *LUIS.ai* to train the bot for intent classification and entity recognition of sentences

POSITIONS OF RESPONSIBILITY

Student Coordinator, Entrepreneurship Cell IIT Kharagpur   Mar 2018-Present

Supervised a team of 7 members for the development of year-long event websites and admin panels
Spearheaded the project of building *Startin*, a KGPian student internship portal for Kharagpur student community
Developed the event websites of EAD'16, GES'17 and Event Detail Management Panel using PHP and AJAX
Introduced the Referral Link System and QR based checkin system for GES'18

SKILLS AND EXPERTISE

Programming Languages	Python , Java
AI related Skills	Machine Learning, Computer Vision, RASA.ai, Deep Learning
Web Frameworks	Flask, jQuery, Puppeteer, Bootstrap, Materialize, SQL

EXTRA CURRICULAR ACTIVITIES

Qualified to the semi-finals of Accenture Innovation Challenge 2018 from among 16000 entries across India
Qualified to the top 50 among nearly 1000 startups at *Conquest'18* (Business Model Competition) organized by BITS Pilani
Active participant of the Inter-Hall Open-Soft General Championship, IIT Kharagpur
Member of Ad Design Team which stood fourth in General Championship, IIT Kharagpur
Volunteered in the event management team of Asia's Largest Techno-Management Fest, Kshitij
Was an active participant in the National Service Scheme by IIT Kharagpur