K Amulya Reddy

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ACADEMIC QUALIFICATION

COLLEGE	Qualification	CGPA
Matrusri Engineering College, Saidabad, Telangana	B.E. (CSE) (O.U.)	9.07/10 (till 5th Sem) Graduation expected 2020
Narayana Junior College, Tarnaka, Telangana	Intermediate	96.3%
St. Anns' High School, Tarnaka, Telangana	SSC	9.8/10

Smart India Hackathon 2019
I lead a team of 6 and we worked on Machine translation and voice assistance chatbot under Kotak Mahindra Bank. We are into the Grand finale of SIH, a National level competition conducted at Sagar Institute of Research and Technology, Bhopal. **Link to code**

Deep Learning: I secured **90%** with Gold medal in NPTEL course on Deep Learning and stood top 5% in India. **Link to certificate**

TextBook Companion: I have re-written a Probability textbook in R code. **Link to code**

PROJECTS

🕷📈 **Web Scrapers with UI (UI-Chart.js)**
- Used Selenium and bs4 to extract statistical entities from web (Stock Marketing data analysis, FIFA player analysis, students' results analysis).
- Used Hasura AuthAPI and DataAPI on K8 cluster and stored data in the form of migrations locally as well as in Hasura database. Used Chart.js for front-end.

R 📊 **Data Analysis on Medchal-Malkajgiri District**
- This project is written in R markdown. Analysis is performed on real-time data collected by visiting District Magistrate office and also from https://www.data.telangana.gov.in/ portal. (Topics on which data is analysed are Agriculture, Colleges, Education, Employment, Tourism, Irrigation, Hospitals, Irrigation of past 5-10 years)

❓💡 **Quiz Application** (**Download apk**)
- Android application with Material design and Firebase Authentication. The app has three levels and over 40 categories of questions.

Ξ💬 **CryptoChat -** Used Web Sockets (Socket.IO) to build a ChatApp encrypting the messages.

♜♘ **Chess Playing (Forsyth–Edwards Notation) -** Given F.E.notation, outputs all possible moves the player can take at that instance.

INTERNSHIPS
Hasura Product Development Foundation (HPDF)   **May, 2017 to Aug, 2017**
Dealt with NodeJS Express, Ajax, HTML, CSS Built a Web-app during the tenure

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Modified on 11th April 2019

AREAS OF INTEREST: Computer Vision, Artificial Intelligence (Game Planning, Search Methods, Deep Learning and Machine Learning), Algorithms Design

CERTIFICATION COURSES (NPTEL, NASSCOM)

COURSE NAME	UNIVERSITY	PERCENTAGE	DURATION
Deep Learning	IIT Madras	90%	Jul-Oct'18
Scalable Data-Science	IIT Kharagpur	70%	Jul-Oct'18
Design and analysis of Algorithms	IIT Madras	70%	Feb-Mar'18
An Introduction to Probability in Computing	IIT Madras	56%	Feb-Mar'18
Data-structures and Algorithms using Python	Chennai Mathematical Institute	92%	Jul-Sep'17
Programming in C++	IIT Kharagpur	86%	Feb-Apr'17
Introduction to Modern Application Development	IIT Madras	75%	Jan-Mar'17

TECHNICAL SKILLS

Programming Skills: Python, R, Java, C#, C/C++
Machine Learning: Keras, NLTK, Image Processing (OpenCV)
Web Development: Django, Flask, NodeJS-Express, Ajax, jQuery, Javascript, MySQL, Oracle SQL, SQLite, PostgresSQL
Mobile App: Android Development with Firebase DB, Auth and MLkit
Softwares/Libraries: Unity3D, C++ libraries (OpenGL on Windows and Borland C++ on Unix)
Others: Kubernetes and Docker cluster management, Pytests, Jupyter Notebook, Sphinx docs

EXTRA CURRICULAR ACTIVITIES

1. Secured 2nd prize in state level Technical Quiz during CSI Telangana State Level Student Convention - Fusion 2018
2. Member of Fossee Fellowship
3. BITS ATMOS - Ethical hacking 2 day seminar and participated in Algomaniac Contest
4. Co-ordinated Algomaniac event conducted in Dhruvamedha'18(2 day tech fest)
5. Unity3D workshop at MVSR - Active along the session learning C# and Unity3D Features
6. Presented Pac-man game built with Unity3D in C# in Project Expo'18 at our college
7. Participated in Capgemini Tech Challenge (Tech Quiz, cleared all three rounds)

LANGUAGES KNOWN

English, Hindi, Telugu

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