
MAHENDRA NATH REDDY E

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SUMMARY

International MSc candidate in Artificial Intelligence and robotics at the University of Hertfordshire. Machine Learning, Deep Learning, and Natural Language Processing are the areas that fascinate and can make a significant impact in the intersection of human biology and technology. Aspiring to utilize Artificial Intelligence in Cognitive Sciences to mitigate risks associated with human diseases.

SKILLS

- **Programming:** Object-Oriented Programming (OOP) Concepts, Java, Python, R.
- **Design:** HTML, CSS, Canva.
- **Technical:** Data Analysis and Visualization, Machine Learning, Deep Learning, Natural Language Processing, Agent-Based Modelling.
- **Familiarity:** Android, WordPress, Unity.
- **Tools:** GitHub, Eclipse, Jupyter Notebook, Spyder, Google Suite, Slack, Zoom, Trello, Bit Bucket, Net Logo.

LEADERSHIP EXPERIENCE

Student Chair, IEEE Student Branch, REVA University

February 2021 - March 2022

- Directed and managed the student branch, ensuring seamless operations and active involvement.
- Orchestrated technical workshops and seminars, enriching student knowledge.
- Mentored and empowered team members, catalyzing their engagement in chapter activities.

Secretary & Student Chair, IEEE Vehicular Technology Society SBC, REVA University

Secretary | July 2020 - January 2021

- Skillfully coordinated chapter gatherings and events, ensuring meticulous execution.
- Maintained crucial records and documentation with a keen eye for detail.

Student Chair | February 2021 - May 2022

- Pioneered dynamic technical contests, fostering vibrant learning experiences.
- Cultivated valuable connections between peers and industry experts.
- Drove chapter expansion through innovative event conceptualization and seamless implementation.

CERTIFICATIONS AND COURSES

- "Introduction to Computer Science and Programming Using Python" - MITx
- "Machine Learning with Python" - IBM Coursera
- "Data Analysis with Python" - IBM Coursera
- "Introduction to Deep Learning & Neural Networks with Keras" - IBM Coursera
- "Microsoft Certified Azure AI Fundamentals" - Microsoft (Certification Code: y33z-DwWu)

EDUCATION

Master of Science: Artificial Intelligence & Robotics, 09/2023 - Current

University of Hertfordshire - Hatfield, UK

- **Coursework:** Artificial Life with Robotics, Neural Networks and Machine Learning, Theory and Practice of Artificial Intelligence, Team Research and Development, Responsible Technology.

Bachelor of Technology: Computer Science Engineering, 08/2018 – 06/2022

REVA University - Bengaluru, Karnataka

- **Coursework:** Multivariable Calculus and Linear Algebra, Probability, and Statistics, Data Structures, Design and Analysis of Algorithms, Operating Systems, Software Engineering, Database Management Systems, Principles of Programming Languages, Machine Learning, Deep Learning, Natural Language Processing, Cryptography and Network Security.

PROJECT WORK

Full Duplex Mode of Communication between Impaired People and Others:

This project aims to develop a software-based tool that translates Indian Sign Language gestures to text, speech, and vice versa. Using a CNN model, the application interprets ISL symbols as text in real time, creating an audio file. The second phase converts spoken human speech to text and periodically displays pertinent ISL symbols. As a result, it enables two-way communication between impaired people and others.

Publication: IACIT-2022 | **Patent :** Filled on Jul - 2022

ACCOMPLISHMENTS

- Collaborated with a team of 5 in the development of a UAV Communication System for the competition "**An Innovation Challenge in Small Unmanned Aircraft System Communications for Students - 2020**" organized by the IEEE Vehicular Technology Society, which bagged "**Honorary Award**".