

Narendra Reddy Meenuga
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PROFILE

A passionate individual with three years of industrial experience in robotics and machine learning fields. Good knowledge of machine vision, software development, programming skills such as Python, C, C++, and MATLAB. Experienced in AWS cloud services, python packages Numpy, Matplotlib, PyTorch, TensorFlow, Seaborn and Pandas. Currently I am studying for my Master of Science in Computer Science at the University of Bridgeport.

EDUCATION

University of Bridgeport

Bridgeport, USA

Master's in computer science

Current GPA 4/4

Currently Enrolled

- Relevant Coursework: Analysis of Algorithms, Cloud Computing, Python Programming for Data sciences
- Received all A grades in current semester coursework, demonstrating a strong understanding of the material and commitment to academic excellence.

Lovely Professional University

Punjab, India

Bachelor of Technology in Electronics and Communication Engineering (Hons) July 2019

Cumulative GPA 7.67 / 10

- Honors: Qualified Semi-finalists in IIDC Texas Instruments, Indo Asian solar innovation prize, Best thesis award for remote sensing idea in Explorica-2019.
- Relevant Coursework: Digital Electronics, Differential equations, Probability and Statistics, Complex Algebra, Object-Oriented Programming, Microprocessors and Microcontrollers, Computer Networks, Control systems, Digital circuits, Analogue circuits, Digital VLSI
- Electives: Full stack Web Development, Data Science

PROJECT & RESEARCH EXPERIENCE

Lovely Professional University

Breast Cancer Nuclei Segmentation using deep learning Techniques

March 2019

- Implemented state of the art deep learning model UNet to segment the cancer nuclei accurately.
- Along with UNet, this project also implements newly developed encoders to improve the segmentation accuracy.

Neural Network classifier for stages of Heart disease detection

March 2018

- Designed a classifier for the Cleveland Heart disease dataset to detect various heart disease stages and achieved the state-of-the-art precision of 80%
- PyTorch machine learning framework was used to develop this project.

PROFESSIONAL EXPERIENCE

Crunch Data, Leeds, UK

Machine Learning Engineer

January 2021 – November 2022

Currently working on the development of AI-based computer vision (CV) and natural language processing (NLP) techniques for use on scanned archive material (such as methods for object detection, object identification, entity recognition, and sentiment analysis).

Responsibilities:

- Develop and deploy state-of-the-art machine learning models for the analysis of archive material.
- Engage with key stakeholders and end-users to develop user focused application specifications.
- Design and evaluate user interfaces suitable for non-technical users using Human Computer Interaction (HCI) best practices.
- Work productively with relevant partners to ensure effective product deployment and operation in all respects.
- With the agreement of all partners, to assist in the dissemination of knowledge developed during the project.

Cognizant Technology Solution, Kolkata, India.

Programmer Analyst

January 2019 – December 2020

I played a key role in developing and maintaining applications for major Insurance company in UK using the Spring Boot framework. I am responsible for writing high-quality, scalable, and efficient code to support the business requirements of the company's clients also involved in debugging and fixing production issues, testing, and deploying applications to production environments. Additionally, I collaborate with cross-functional teams such as designers, project managers, and other developers to ensure projects are delivered on-time and to the required quality standards.

Responsibilities:

- Played a key role in development of complex applications using Spring Boot and Spring MVC frameworks.
- Designed and implemented RESTful APIs for seamless integration with various applications.
- Worked with the team to manage data persistence using Hibernate and other ORM frameworks.
- Collaborated with front-end developers to create user-friendly and responsive interfaces.
- Mentored junior developers and provided constructive feedback during code reviews also explained the project architecture.
- Troubleshoot and resolved critical production issues in a timely manner.
- Followed Agile development methodologies and ensured delivery of high-quality
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VOLUNTEER & LEADERSHIP

RISC - Robotics and Intelligence Systems Community (LPU)

Research Volunteer

Sept 2016 - Jan 2019

- The key responsibilities were Learning new technologies, Sharing Ideas and implementing those ideas into the projects.
- Developed technical and interpersonal skills, thereby gaining good exposure in relative fields.

SKILLS & INTERESTS

- Programming: Python (NumPy, pandas, Scikit-learn, PyTorch), Java (Spring Boot, Spring MVC), MATLAB, C and C++
- ML Frameworks: PyTorch, TensorFlow, PyTorch-Lightning and MATLAB deep learning toolbox.
- Version control tools: Git, Apache Subversion
- Cloud: Azure SQL database, Google firebase, Docker deployment.
- Proficient in designing and implementing RESTful APIs.
- Expertise in using Hibernate and other ORM frameworks for data persistence.
- Hands-on experience with databases such as MySQL, PostgreSQL, and MongoDB.
- Familiarity with front-end technologies such as HTML, CSS, and JavaScript
- Languages: Fluent in English, Hindi and Telugu (Native).