**KIRANMAYI MODUGU**

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**PROFESSIONAL SUMMARY**

Master’s student in Data Science with almost 2 years of research and practical experience in Java Development. Demonstrated proficiency in programming languages like Java, Python, and statistical modeling. Responsible and task-oriented with a strong foundation in software development, data science, and web technologies. Eager to leverage technical expertise and problem-solving skills to contribute to innovative projects in a dynamic, data-driven environment.

**Core competencies:**

**Data Science & Machine Learning:** ▪ Java ▪ Statistical Analysis ▪ Predictive Modeling ▪ Big Data Analytics

**Programming & Tools:** ▪ Data Analysis ▪ Python ▪ SQL ▪ C ▪ IBM Watson▪ AWS

**Research & Analysis:** ▪ Front-end Development ▪Architectures ▪ Data Science Pipelines

**Data &AI Product Management:** ▪ Business Planning ▪ Product Lifecycle Management ▪ Cross-functional Collaboration

**EDUCATION**

**Tagliatela College of Engineering, University of New Haven ▪ West Haven, CT August** 2024 (expected 2026)

*Master of Science in Data Science*

* **Coursework:**  
  ▪ Machine Learning ▪ Big Data ▪ Data Visualization ▪ Deep Learning ▪ Natural Language Processing (NLP) ▪ Leadership in Data & AI Products ▪ Data Ethics
* **Tools:**  
  ▪ Python ▪ R ▪ SQL ▪ TensorFlow ▪ Hadoop ▪ Tableau ▪ AWS

**Gokaraju Rangaraju Institute of Engineering and Technology ▪ Hyderabad, India August 2018-July 2022**

*Bachelor of Technology in Computer Science* ▪ *Graduated with Distinction*

* **Coursework:**  
  ▪ Software Development Life Cycle ▪ Object-Oriented Programming ▪ Web Technologies ▪ Data Structures ▪ Database Management Systems
* **Achievements:**  
  ▪ Member of Cisco and certified in Python Language.  
  ▪ Received training in PHP and MySQL offered by IIT Bombay.  
  ▪ Completed the Academy Cloud Foundation Course conducted by AWS Academy.  
  ▪ Earned a silver badge on HackerRank.  
  ▪ Certified in AI from Coursera.

**PROFESSIONAL EXPERIENCE**

**The Sparks Foundation ▪ Remote***Data Science & Business Analytics Intern* ▪ *Jun 2021 – Jul 2021*

* Completed technical tasks related to Data Science, including three tasks using machine learning concepts.
* Engaged in non-technical tasks such as content writing and digital marketing.
* Received a Letter of Recommendation for outstanding performance.

**Virtusa ▪ Hyderabad, India**  
*Technical Intern*  Feb 2022 – May 2022

* Worked on various technologies, including UML, OOPS, SQL, and React, and conducted unit testing. Gained experience with other languages, tools, and databases.
* Identified and resolved programming bugs, ensuring software quality and functionality.
* Maintained the security and integrity of software and web applications.
* Conducted industry research to provide optimal solutions for clients.
* Explored opportunities to improve and optimize Java web service programs.

**Virtusa ▪ Hyderabad, India**  
*Associate Engineer*  *May 2022 – Oct 2023*

* Developed web applications for client-server environments using Java technologies, enhancing functionalities and adding new features.
* Played a key role in project development by building applications with Spring framework as the back end and React.js as the front end.
* Utilized solid Software Development Life Cycle expertise and core Java technologies to develop client-specific applications.
* Improved functionality of web applications by developing highly interactive and customized user interfaces (UIs) with JavaScript, HTML, JSP, and CSS.
* Created website layouts based on templates and wireframes using HTML.
* Designed and implemented an event-driven architecture for real-time data processing and analysis.
* Debugged programs and integrated applications with third-party web services using Python.
* Monitored and interacted with databases, performing various tasks using SQL.

**PROJECTS**

**Face Mask Detection ▪ Hyderabad, TS**

*Project Member, GRIET/ Undergraduate*

* + Use OpenCV to capture video frames.
  + Apply the face detection and mask classification pipeline to each frame.
  + Display the results in real time.
  + Public safety during pandemics.
  + Monitoring mask compliance in workplaces, airports, or public areas.
  + Lighting conditions, occlusions, and varying face angles can affect accuracy.
  + Ensuring real-time performance on low-resource devices. [Month] [Year]– [Month] [Year]

**Music Generation using Deep Learning ▪ Hyderabad, TS**

*Project Leader, GRIET/Undergraduate*

* Capture temporal dependencies in music (e.g., LSTM, GRU).
* Handle long-range dependencies and generate high-quality sequences.
* Learn latent representations of music for generations.
* Generate realistic music by competing networks.
* Generate music by iteratively refining noise into structured audio.
* Represented as MIDI files (notes, tempo, instruments).