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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.

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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).

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