

SUMEDHA JANANI SIRIYAPURAJU

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OBJECTIVE

Versatile Electronics and Communication Engineering graduate with expertise in AI/ML, data analytics, and software integration. Seeking to pursue an MS in Computer Science with a specialization in AI/ML for healthcare applications, particularly in cardiovascular medicine. Passionate about leveraging predictive analytics, advanced machine learning models, and cutting-edge technologies to enhance patient care.

EDUCATION

Electronics and Communication Engineering
VNIT, Nagpur

July 2019 – May 2023
CGPA: 7.80

- Relevant Coursework: Object Oriented Programming, Data Structures and Algorithms, Machine Learning with Python, Operating Systems, Introduction to IoT
- Final Year Project and Thesis work on Detection of DoS and DDoS attacks using Mathematical, Entropy and Machine Learning Models
- Department Council Representative, ECE Dept.
- Student Mentor for approximately 120 first-year ECE students at VNIT, providing direct guidance to 16 students while supporting the broader group.

WORK EXPERIENCE

Analyst, Deloitte USI, Bangalore

Oct 2023 – Present

- **BI Reports Customization:** Streamlined reporting workflows by designing and delivering 10+ BI Publisher reports, including the Positive Pay from Void report, ensuring compliance with client-specific requirements and enhancing operational efficiency.
- **Oracle Integration Cloud (OIC):** Developed and deployed robust OIC integrations to enhance data flow and ensure seamless connectivity between enterprise applications.
- **Cross-Functional Module Expertise:** Worked on modules spanning **Expenses, Payables, Treasury, AR Invoices, General Ledger, and Projects**, ensuring seamless data integration and functional coherence across systems.
- **Stakeholder Engagement:** Led daily discussions with 10+ stakeholders to customize solutions to address diverse requirements, enhance functionality, and achieve high client satisfaction.

INTERNSHIP

Research Intern, Tata Consultancy Services, Pune

June 2022 – August 2022

- **Automated Learning of Event Schema from Text:** Designed and implemented pipelines for **Named Entity Recognition (NER), Relation Extraction, and Event Detection** using the OneIE framework, automating the generation of event schema graphs from unstructured text data.
- **Data-Driven Insights:** Developed detailed **Event Schema Graphs** that captured relationships and entities, offering actionable insights for downstream applications like information retrieval and analytics.
- **Collaborative Research:** Worked under the mentorship of senior scientists, refining machine learning models through iterative experimentation, while enhancing technical, problem-solving, and communication skills through regular progress discussions and presentations.
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RESEARCH/PUBLICATIONS

- Lead Author and Presenter, *DoS and DDoS Attack Detection Using Mathematical and Entropy Methods*, S. J. Siriyapuraju et al., *PCEMS-2023, IEEE Xplore, Nagpur, India..*
Published On: <https://ieeexplore.ieee.org/document/10136042>
Project Guide: Dr. Abhay Gandhi (Dean Academics, VNIT)
- Submitted another continuation paper as a Sole Author

TECHNICAL SKILLS

- **Programming Languages:** Python, SQL, MATLAB, C/C++, Octave
- **Web Development:** HTML, CSS, XML, JavaScript
- **Machine Learning Frameworks:** TensorFlow, Keras, Scikit-learn, Scipy
- **Natural Language Processing:** NLTK, SpaCy
- **Cloud Technologies:** Oracle Integration Cloud, Oracle Cloud SQL, BI Publisher
- **Tools:** Linux, Postman, SoapUI, SQL Developer, Bitbucket, Overleaf (LaTeX)
- **Other Softwares:** Adobe Photoshop, Illustrator, Simulink, NI Multisim

CERTIFICATIONS/WORKSHOPS/ADDITIONAL COURSES:

- **Oracle Cloud Infrastructure, Oracle Database, Oracle Cloud Infrastructure with GenAI and Data Science** Oracle University **July 2024**
- **AI in Healthcare Specialization** Stanford University **Oct 2022**
- **Deep Learning Specialization** DeepLearning.ai **May 2021**
- **Machine Learning Specialization** Stanford University **Aug 2020**
- **Python for Everybody Specialization** University of Michigan **Mar 2020**

ACHIEVEMENTS

- Multiple performances by invite at **All India Radio, Hyderabad** as a **Yuva Vani Veena** (stringed instrument) **Artist** from 2017 till date
- **Runner-up** in **Karnataka Nada Vedam 2023 Veena Competitions** conducted by **Andhra Mahila Sabha**
- Won **Spot Award, Applause Award**, and multiple **Well-Being Competitions** at **Deloitte, Bangalore, India** in 2024

LEADERSHIP ROLES

- **Expense Module Representative, Deloitte USI** **2024**
Solely led discussions with clients on a daily basis to customize and personalize the Expense module deliverables.
- **Student Mentor, VNIT** **2021 – 2023**
Mentored 120+ first-year students, providing academic guidance, emotional support, and resources to help them adapt to the college environment and culture effectively. Fostered a sense of belonging and collaboration within the department.
- **Department Council Representative, VNIT** **2019 – 2021**
Represented the student body in discussions with faculty, provided feedback on course plans, and suggested improvements.
- **Student Cabinet, BSRKV** **2015-2017**
Served as a member of the Student Cabinet, fostering effective communication between students and the teaching staff while promoting discipline and a positive school environment.

LANGUAGES KNOWN

- Proficient: English, Hindi
- Native: Telugu
- Basic: Marathi, French

COMMUNITY INVOLVEMENT

- **Annamayya Seva, Annamayyapuram**, Hyderabad **2015**
Participated in a cultural initiative to preserve heritage through music, fostering teamwork and social impact by organizing performances and raising funds for music education in underprivileged communities.
- **Impact Day, Deloitte** **2024**
Volunteered for a program called Grow Green to make paper bags and seed balls.

EXTRACURRICULARS

- A promising **Veena artist** at **All India Radio, Hyderabad Station** under the **Yuva Vani** Category.
- A published author of the book *Loving Me, Loving You*, under the pen name of **Aisha Avani**.
- Yearly participant of **Goodread's annual reading challenge** setting a goal of reading at least **50** books each year.
- Diploma holder in **Carnatic Music-Veena** - practicing since 2010 (Completed Certification in 2017 and Diploma in 2023)
- Learnt **Carnatic Music- Vocal** for 10 years.
- **Member of 'Compering'** in VNIT; the institute's comedy club of **30 comedians**.
- Was a **Content Writer** at **Volume Stories, Movench** and **College Time**. As part of this, I created engaging social media content, including Instagram carousels and marketing blogs.