NEKETHA SURESH (US Citizen)
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EDUCATION

University of North Carolina at Charlotte — **Charlotte, North Carolina**
Master of Science in Computer Science (GPA: 3.77/4) — 2023 - Present

Relevant Coursework: AI-Driven Development, Network Based Application Development, Data Structures and Algorithms, Software System Design and Implementation, Database Management Systems, Big Data Analytics, Visual Analytics, Knowledge Discovery in Databases

Vellore Institute of Technology — **Chennai, Tamil Nadu**
Bachelor of Technology in Computer Science and Engineering (GPA: 8.2/10) — 2019 - 2023

SKILLS AND LANGUAGES

Programming & Web Technologies: Python, Java, JavaScript, HTML, CSS, React.js, Angular, Node.js, Express, Flask, C++
Data Management & Analysis: MySQL, MongoDB, TensorFlow, PyTorch, Scikit-Learn, Pandas, NumPy, Tableau, PowerBI
Development Tools & Methodologies: Git, Docker, AWS, Azure, Agile, Scrum, SDLC, UML, DevOps Basics, Cybersecurity Fundamentals

EXPERIENCE

Metayb — **Chennai, Tamil Nadu**
Machine Learning Intern — May - Nov 2022

- **Engineered** a custom **time-series database** engine, **boosting data ingestion speed by 30%**, critical for real-time analytics.
- **Implemented** an **LSTM neural network** for sales forecasting, achieving **87% prediction accuracy**, significantly enhancing decision-making processes.
- **Applied machine learning** techniques, such as **linear regression**, to forecast customer lifetime value with **95% accuracy**, directly supporting targeted **customer retention** and **precision marketing** initiatives.
- **Developed** a **logistic regression** model to reduce customer churn, **cutting churn rates by 10%** and bolstering retention through **data-driven insights**.

LingaTech — **Pennsylvania, United States**
Data Analyst Intern — Nov 2021 - Feb 2022

- **Performed predictive analytics** on user behavior data using the **Naive Bayes algorithm**, enhancing forecast accuracy of business outcomes by **15%**.
- **Led** prescriptive analytics efforts using **behavioral data**, implementing a **decision tree model** that improved product satisfaction (measured by Net Promoter Score) by **20%** and decreased decision latency by **25%**.
- **Designed** and **deployed** interactive **data visualization** dashboards in **Tableau**, utilizing **API integrations** for enhanced user experience and operational efficiency.

Eminence Tech — **Bangalore, Karnataka**
Software Development Intern — Jun - Sep 2021

- **Transformed** business requirements into actionable technical specifications using **UML diagrams**, facilitating agile software development for a new pharmacy management system.
- **Executed** full-stack development with **JavaScript**, **Node.js**, and **React**, optimizing system scalability and user engagement.
- **Enhanced** system performance by **30%** through strategic **middleware management** and **asynchronous programming** in Node.js.
- **Utilized React.js profiling tools** to optimize front-end performance, achieving a **25% efficiency increase** in system operations.

PROJECTS

IntelliClaim.ai
AI-driven Insurance Claims Assessment Solution

- **Engineered and deployed IntelliClaim.ai**, utilizing Python, TensorFlow, and React to incorporate multimodal AI, enhancing the accuracy of insurance claims processing and reducing fraud identification false positives by 30%.
- **Analyzed over 1TB of historical claim data** using advanced machine learning and anomaly detection algorithms, significantly improving fraud detection accuracy.
- **Developed a scalable user interface** with RESTful API integration, providing seamless access and facilitating expansion into multiple insurance sectors.

Dr. COCO
AI-Powered Mental Health Support Tool for Children

- **Engineered Dr. COCO**, an AI chatbot leveraging Python, Flask, and OpenAI to identify early mental health issues in children, utilizing interactive games and storytelling for engagement.
- **Designed and integrated** a user-centric web interface using HTML, CSS, and JavaScript, crafting **appealing and engaging visuals** specifically tailored for children, enhancing user interaction and experience.
- **Enhanced diagnostic precision** by incorporating NLP to assess emotional and social responses. Conducted extensive research, analyzing over 200 academic papers to develop a robust questionnaire dataset, adhering to strict data protection standards throughout the process.

GenAI
Generative AI Trend Visualization and Analysis

- **Developed a Single Page Application (SPA)** using Angular and Node.js to visualize trends in generative artificial intelligence and automation across various industries.
- **Implemented dynamic charts** using Chart.js, integrated secure JWT-based authentication, and established seamless frontend-backend communication via RESTful APIs.