

Tanooj Reddy Seelam

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Education

Master of Science in Computer Science

Tempe, Arizona

Arizona State University — GPA : 3.83

May 2024

- Courses : Foundations of Algorithms, Fundamentals of Statistical Learning, Foundations of ML, Semantic Web Mining.

Bachelor of Technology in Computer Science and Engineering

Amaravati, India

Vellore Institute of Technology — GPA : 8.61

May 2022

- Courses : Data Structures and Algorithms, Database Management Systems, Object Oriented Programming.

Professional Experience

Data Analyst - Arizona State University

Feb. 2023 - May 2024

Student Worker IV

Tempe, USA

- Analyzed resource allocation and budgeting processes, identifying inefficiencies and reallocating funds to high-impact initiatives, leading to a 15% reduction in operational costs and a 10% increase in student services funding.
- Spearheaded the creation of a predictive model leveraging admissions data from 2015 to date, achieving 95% accuracy revolutionized ASU's admissions process, resulting in more targeted student recruitment and increased enrollment rates.
- Implemented PostgreSQL, DBeaver, and Alteryx to enhance data extraction processes, cutting retrieval time by 40%; optimized all scripts for efficiency, resulting in a 30% performance boost and facilitating in-depth analysis.

Backend Developer Intern - Trie Coders PVT LTD.

Jan. 2022 - Jun. 2022

Intern Developers

Bengaluru, India

- Orchestrated the launch of a cutting-edge Lead Management System, consolidating data into a central repository, resulting in a notable 72% reduction in data loss and an impressive 82% enhancement in operational efficiency.
- Developed a high-performance application with Swing MVC and Apache Tomcat, enhancing sales efficiency by 40%; optimized server response by 30% and reduced page load times by 25% using JSP and servlets.
- Attained server-side solutions with JSP and servlets, achieving a 31% improvement in page load speed and a 27% reduction in server response time, resulting in a 36% increase in Apache Tomcat routing efficiency.

Skills

Programming & Databases

Java, Python, C, J2EE, MySQL, NoSQL, SQL Server, MongoDB, PostgreSQL

Machine Learning

TensorFlow, Scikit-learn, PyTorch, Pandas, Random Forest, Deep Learning

Tools & Cloud Technologies

Android, AWS, Azure, Microsoft Office, Matlab, Tableau, PowerBI, QuickSight

Web Technologies

HTML5, CSS, JavaScript, PHP, Apache Tomcat, JSON, AJAX, Angular, Git

Projects

Lyrical Sentimental Analysis | Logistic Regression, NLP, BERT with MediaPipe

Mar. 2024 - May 2024

- Engineered a robust sentiment analysis system combining machine learning and deep learning techniques; enhanced emotional content classification accuracy in song lyrics by 30% using a comprehensive dataset through web scrapping.
- Elevated model efficacy with performance boost through feature engineering and precise hyper-parameter optimization; secured 85%, improved result loading speed by 53%, and increased GUI interface utilization by 30% .

Drug Health Monitoring System | Blockchain, React.js, MetaMask

Oct. 2023 - Dec. 2023

- Designed and implemented a robust Ethereum smart contract, leveraging Solidity, Remix IDE; improved transparency by 40%, accuracy by 99%, and reduced counterfeit incidents by 30% while enhancing regulatory compliance by 25%.
- Constructed a visually captivating and functional interface and delineating sections for drug information. This led to a 35% reduction in the time required to access critical drug information and a 40% enhancement in user satisfaction.

Chronic Kidney Disease Prediction | ML Algorithms, Python

Jul. 2021 - Dec. 2021

- Initiated an advanced predictive model with Random Forest Classifier, cleaning and preprocessing 400 patient records and 10,000 data points, attaining perfect 100% accuracy through detailed analysis and systematic experimentation.
- Crafted a streamlined GUI or API with PyQt5, simplifying CKD prediction processes, resulting in a 25% rise in user satisfaction and a 40% decrease in navigation time, enhancing overall usability and engagement by 30%.

Certifications

Cyber Security

NASSCOM

Machine Learning Using Python

IBM