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SATYA JEET RAJ UPALI

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GitHub | LinkedIn | Portfolio

EMPLOYMENT

Software Development Engineer, Intern   **Amazon, Hyderabad**   **Jan, 2023 – June 2023**

Latency Reduction in UpsellService

- Actively participated in the CI/CD pipeline, ensuring smooth and continuous delivery of high-quality software.
- Collaborated with team to identify performance bottlenecks, propose targeted optimizations, and successfully contribute to the overall system optimization, further strengthening customer satisfaction and retention.
- Wrote clean and optimal code.
- Applied Datapath Query Language (Amazon's proprietary) to **optimize code** and **reduce latency** in the UpsellService **by 80-85%** at the view level and **5ms** at the service level, **from the original 30ms to 25ms**.

Artificial Intelligence Intern   **DIC LAB, Chandigarh**   **Jul, 2022 – Aug, 2022**

- Gained hands-on experience in Deep Learning and Neural Networks, acquiring a strong foundation in fundamental concepts and techniques.
- Mastered essential libraries such as Pandas, Matplotlib, NumPy, TensorFlow, and Image Segmentation, demonstrating proficiency in data manipulation, visualization, numerical computing, deep learning frameworks, and image segmentation algorithms.
- Successfully applied acquired knowledge to complete weekly assignments provided by the DIC Lab, showcasing practical implementation and problem-solving skills in the field of Deep Learning and Neural Networks.
- Actively engaged in continuous learning and exploration, staying updated with the latest advancements in Deep Learning and actively seeking opportunities to apply the gained knowledge to real-world projects.

EDUCATION

University Institute of Engineering and Technology, Punjab University, Chandigarh, India
Bachelor of Engineering in Information Technology (2019-2023)
Academic Achievement:
   CGPA: 8.76/10.00

Little Flower Children School, Mau, Uttar Pradesh, India
Academic Achievements:
Class 12th Percentage: 70.00/100.00 (2018)
Class 10th CGPA: 9.40/ 10.00 (2016)

TECHNICAL EXPERIENCE

Projects

- **Latency Reduction in UpsellService**
  UpsellService maps products with services with service on Amazon Website. Reduced latency in UpsellService at view level by 5ms at Service level, from original 30ms to 25ms and at view level by 80-85%.
  Tech Stack: DQL, TypeScript, Git, CI/CD.

- **Portfolio-React**
  It's a personal portfolio website hosted on Firebase, showcasing my professional journey. The website includes dedicated sections for an 'About Me' introduction, educational background, project highlights, internship experiences, and a contact form for seamless communication. This platform effectively communicates my skills, achievements, and availability for collaboration with a user-friendly interface.

Tech Stack: HTML, CSS, JavaScript, React
Demo Code

- **Text-Analyzer**
  Text-Analyzer is a dynamic text analysis website hosted on Firebase, offering a suite of powerful text manipulation tools. Users can effortlessly convert text between lowercase and uppercase, eliminate excessive spaces, and access real-time word and character count. Additionally, the website includes a robust spell-checker with spell suggestions. To enhance user experience, I implemented both dark and light modes for accessibility and customization.
  Tech Stack: HTML, CSS, JavaScript, React
  Demo Code

- **Brain Tumor Segmentation using UNET**
  Performs image segmentation on brains images at an accuracy of 99%.
  Tech Stack: TensorFlow, Scikit-Learn, Python, Deep Learning, Image Segmentation, Google Collab.
  Code

RESEARCH

EARLY PARKINSON DISEASE DETECTION USING AUDIO SIGNAL PROCESSING   Jul 2021 – Dec 2021

Authors: 2
This research paper explores the application of machine learning approaches for classifying patients with Parkinson's Disease. The study utilizes Python and scikit-learn to implement a set of classification models. These models are designed to analyze voice data from patients and determine whether they have Parkinson's disease or not. By leveraging machine learning techniques, the research aims to develop an accurate and efficient classification system that can assist in the early detection and diagnosis of Parkinson's disease based on voice characteristics. The paper contributes to the field of medical research by demonstrating the potential of machine learning in aiding the identification and management of Parkinson's disease through non-invasive voice analysis.
Tech Stack: TensorFlow, Scikit-Learn, Python, Machine Learning, Jupyter Notebook.
Paper Code

LANGUAGES AND TECHNOLOGIES

- **HTML, CSS, JavaScript, React**, C++, Python, SQL
- Data Structures & Algorithm, Object Oriented Programming, Operating System, Database Management System, Git, GitHub, Deep Learning, Machine Learning

CERTIFICATIONS

- **Complete SQL and Databases Bootcamp-Zero to Mastery:** It's an online non-credit course offered through Udemy.
- **Programming for Everybody (Getting Started with Python):** It's an online non-credit course authorized by the University of Michigan and offered through Coursera.

INTERESTS

Reading, Sports