VISHAL KODAM

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TECHNICAL SKILLS

Frameworks/IDE: Visual Studio, PyCharm, Postman, Bitbucket, Jira, Spark, Apache

DevOps/Cloud: AWS (S3, Lambdas), Git, Unix, Linux, Apache, Cloudera

Web Development: JavaScript, HTML, CSS, NodeJS, ReactJS, MongoDB, Flask, MySQL

Languages: Python, Java, C++, PureScript, Haskell, R, MATLAB

ML/AI: OpenCV, Neural Networks, Tensorflow, Pytorch, Flutter/Flask

WORK EXPERIENCE

Graduate Research Assistant, SUNY Poly College of Health Sciences   **Feb'24 – Present**
- Conducting Data Analysis of high-density EEG signals using EEGLAB for SUNY POLYTECHNIC Health Department to derive valuable insights and contribute to advancements in healthcare.

J.P. Morgan Software Engineering Virtual Experience on Forage   **Dec'23 – Jan'24**
- Fixed broken files in the repository to make web application output correctly.
- Used JPMorgan Chase's open-source library called Perspective to generate a live graph that displays a data feed in a clear and visually appealing way for traders to monitor.

Technical Product Analyst Intern, JUSPAY, Bangalore, India   **Jun'21 – Nov'22**
- Achieved API Integration in Haskell between the Government 'Sahay App' and partnered banks, streamlining processes.
- Implemented auto-capitalization in Presto, reducing manual input errors by 50% and enhancing the user experience.
- Enhanced UI design, boosting user engagement by 40%, reducing error rates by 25%. Contributed to R-based back-end customization and dashboard development, including log creation.

Android Developer Freelancer, Hyderabad, India   **Dec'20 – Apr'21**
- Led gym app development, excelling in UI design with Figma, and optimized backend operations with Firebase, resulting in a 30% boost in user engagement.
- Improved data management for class schedules, memberships, and workout tracking by 25%.

PROJECTS

AWS DeepRacer Machine Learning Project   **October 2023**
- Led a team in implementing reinforcement learning on AWS DeepRacer, securing a 27% performance boost via custom reward functions, while developing expertise in reinforcement learning with a focus on leveraging LLMs for advanced hyperparameter tuning.

Diabetes Detection using Supervised Learning models   **April 2023**
- Implemented advanced ML models (KNN, Gradient Boosting, Random Forest, SVM) on the PIMA Indian Diabetes dataset, resulting in a 15% accuracy boost through hyperparameter tuning; additionally, spearheaded the development of a user-friendly Flask interface, leading to a 20% increase in user engagement and a 25% reduction in error rates.

E-Auction App   **March 2019**
- Collaboratively built Android auction platform, enabling 100+ dummy transactions; employed Figma for UI design, yielding a 20% boost in user engagement.

PAPER PUBLICATION

Covid-19 detection from X-ray scans using Alexa   **May 2022**
Aim: Use a CNN model on Chest X-ray images and implement integrating NLP- virtual assistant skill set for an interactive interface. ***Research paper published by the IEEE (link)*** Used Python modules such as pyttsx3, gTTS, urllibMethodology to implement Alexa.

EDUCATION

SUNY Polythechnic Institute, Utica, NY   **Spring 2023 - Present**
Masters of Science — Computer Science

Indian Institute of Information Technology Nagpur (IIIT-N), Nagpur, India   **2018 - 2022**
Bachelor of Technology in Electronics and Communications, GPA: 3.10

CERTIFICATIONS

- Oracle Autonomous Database Cloud 2021 Certified Specialist
- Oracle Cloud Infrastructure Developer 2021 Certified Association
- Stanford Online- Machine Learning Specialisation