Akhilesh Adithya

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WORK EXPERIENCE

eBay   **Jan. 2023 – June 2023**
Intern   *Bengaluru, KA*
- As a member of the Trust Strategy and Organization team at eBay, I played a crucial role in policy enforcement by constructing models to analyze freeform text data and identify patterns.
- Developed rule based regex models and transformer based NLP models using **pytorch** to detect patterns.
- Achieved an improvement in catch rate by up to **62%**.
- Developed pipeline for scheduled automated actioning of offenders using **PySpark**, **bash** and **crontab.**

IBM, India Software Labs   **May 2022 - Aug. 2022**
Summer Intern   *Bengaluru, KA*
- Collaborated with a team of three interns in the ExtremeBlue program to devise an intelligent solution for efficient provisioning and monitoring of "green" data centers.
- Developed a solution involving a server-side AI module for optimal ranking and selection of "green" data centers using **Keras**, accompanied by a client-side plugin built using **React**.
- Implemented **REST** APIs for seamless server-client communication in the AI module and plugin integration.
- Developed a data center simulator that mocked and simulated conditions such as load, weather, distance using **Docker, Python and Bash.**

EDUCATION

BITS Pilani   **August, 2023**
B.E Computer Science Engineering | CGPA: **8.77**/10   *Zuarinagar, Goa*
- **TA:** Deep Learning(CS-F245); Computer Architecture(CS-F342); Principles of Management(MGTS-F211)
- Relevant Courses: Human Computer Interaction; Neural Networks and Fuzzy Logic; Artificial Intelligence; Data Structures and Algorithms; Object Oriented Programming; Design and Analysis of Algorithms; Computer Networks; Database Systems; Computer Architecture

PROJECTS

OCEAN   **August 2021 – May 2022**
IMHI Lab, BITS, Pilani
- Developed Framework: OCEAN - Opportunistic Continuous Emotion Annotation
- Utilized CASE dataset and **RuLSIF** algorithm to compute change point scores for physiological sensors
- Applied **K-means** clustering to select probe points for valence and arousal score measurement
- Reduced **87%** of probe points on average, preserving critical information
- Paper accepted at IEEE PerCom 2022 (Link)

PORTFOLIO WEBSITE + MISCELLANEOUS PROJECTS   **July 2020 – June 2021**
- Developed portfolio website which uses **Fast Fluid Dynamics Simulation** for the background. (Link)
- Includes an interactive **discord** bot, an **RL** Flappy Bird agent, **pyGTK** AI opponent connect4 game and other development projects. Previous version of the website (Link) was built using **gatsby**, **three.js** and **GraphQL.**

SKILLS

Python; Frontend Development (React, Vue, JavaScript, HTML, CSS, Three.js); Machine Learning (PyTorch, Keras, NLP); Bash Scripting; Version Control (Git); Problem Solving; SDLC (Agile, Scrum); Communication; Collaboration