JOSEPH CIJO

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EXPERIENCE

Microprocessors and Interfacing Laboratory Professional Assistant Feb. 2025 – May. 2025
Birla Institute of Technology and Sciences, Pilani *Dubai, UAE*
- Assisted in the Microprocessors and Interfacing Laboratory, providing support to students during lab sessions
- Facilitated the understanding of microprocessor concepts and interfacing techniques

Summer Intern June 2024 – Aug. 2024
Veehive *Dubai, UAE*
- Led the Front-end Team to simultaneously develop an application interface alongside a product website
- Coordinated in a cross-functional team environment, collaborating with middleware and backend developers

EDUCATION

Birla Institute of Technology and Sciences, Pilani Dubai, UAE
Bachelor of Engineering in Computer Science *Sept. 2022 – Present*

PROJECTS

pBee.ai | *React, TypeScript, Tailwind CSS, Formik, Axios, Amazon Web Services* June 2024 – Aug. 2024
- Developed a web application for pBee.ai, an AI-powered poster generation tool
- Implemented key features such as user authentication, file uploads, and real-time chat functionality
- Created wireframes and prototypes using Figma for the pBee.ai application
- Utilized Framer to develop a responsive landing page

Font Detection App: Frontend and Model | *Python, Streamlit, PyTorch, Matplotlib, Pillow* Aug. 2024 – Oct. 2024
- Created a web application interface for font recognition, allowing users to upload and crop images
- Implemented data preprocessing and integration of the trained CNN model into the web application
- Created a custom dataset of 167 typefaces, including data augmentation techniques
- Conducted thorough research on typeface classification and its applications in various industries
- Analyzed and evaluated model performance using metrics such as accuracy, loss, and confusion matrices

Fake News Detection Ensemble Model | *Python, Scikit-Learn, PyTorch, Matplotlib* Mar. 2025 – May. 2025
- Implemented textual data preprocessing including text cleaning and augmentation
- Carried out feature extraction using various methods to compare accuracy of base models
- Performed soft and hard voting ensemble learning using base models

A Hybrid NTRU-RLWE based HE Scheme | *Python, TenSEAL, Matplotlib* Mar. 2025 – May. 2025
- Proposed a Proof-of-Concept of a hybrid homomorphic encryption scheme
- Provided with future scope for full implementation of the scheme

TECHNICAL SKILLS

Languages: Java, Python, MySQL, C/C++, JavaScript/TypeScript, HTML/CSS, LATEX, Markdown
Frameworks: React, Node.js, Material-UI, Formik, Axios, Streamlit, TailwindCSS, framer-motion
Libraries: pandas, NumPy, Matplotlib, pyTorch, Pillow, Scikit-Learn
Developer Tools: Git (GitHub), VS Code, Figma, Framer, Postman, Amazon Web Services, Vercel
Tools: AutoCad, MS Office Suite, Adobe Illustrator

SOFT SKILLS

Leadership, Problem Solving, Adaptability, Creativity, Time Management, Critical Thinking