KAMAKSHI OJHA

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WORK HISTORY

AI (LLM) intern | Quantum Computing intern,
TECH MAHINDRA
May 2024 – July 2024 | Noida, India

- Collected and curated data from Indonesian websites for the Garuda Project, focusing on data cleaning of existing records.
- Conducted research on ASGN for LLMs and explored SNN applications in computational neuroscience. Contributed by proposing the integration of the attention mechanism to improve model performance and adaptability.
- Conducted research on image transformation between day and night using quantum computing techniques, aiming to contribute to visual data processing.

Research Intern,
OPEN HEALTH SYSTEMS LABORATORY (OHSL)
May 2024 – July 2024 | Noida, India

- Researched and explored integration possibilities of Zoom, Teams, WebEx, and Google Meet with TELESYNERGY®, a cutting-edge technology developed by National Institutes of Health scientists and engineers.
- Investigated interoperability and integration strategies, ensuring seamless collaboration across medical institutions globally while adhering to HIPAA compliance standards.

PROJECTS

CONVOLUTIONAL NEURAL NETWORK FOR DROWSINESS DETECTION FROM EEG SIGNALS

- The model is a CNN architecture with CBAM attention for enhanced spatial focus in drowsiness detection from EEG.
- The Model gives an accuracy of 74% after Flattened features pass through dense layers with softmax activation for EEG drowsiness classification.

IMAGE TRANSFORMATION FROM NIGHT TO DAY USING QUANTUM COMPUTING

- Developed a hybrid CycleGAN-Quantum model to enhance scalability and speed in image-to-image translation.
- The model was used to convert night light images to Daylight, helping to enhance visual information, surveillance, and remote sensing.

BOOKCOVE

- Features a wide range of bestsellers and categorized books, literary events, clubs, reviews, wishlists, and cart management.
- Includes a "Local Treasures" section supporting small businesses and emerging authors.

CHAT ROOM APPLICATION

- Developed chat room app with Spring Boot, WebSocket, and STOMP for seamless communication.
- Established persistent WebSocket connections for instant messaging.
- Enhanced scalability by 5% using STOMP for efficient message-based communication.

EDUCATION

AMITY UNIVERSITY UTTAR PRADESH, NOIDA
B.Tech. Computer Science Engineering

- 2021 - 2025 | 8.91 CGPA (Pursuing)

DAV PUBLIC SCHOOL, SRESHTHA VIHAR, DELHI
PCM with Computer Science

- 2020 - 2021 | 89.8% in CBSE Board Exam(Class-XII)
- 2018 - 2019 | 89.4% in CBSE Board Exam(Class-X)

SKILLS

TECHNICAL SKILLS

- **Languages**: C, C++, Java, Python3, SQL Programming, PostgreSQL, JavaScript
- **Machine Learning & Deep Learning Frameworks**: TensorFlow, Keras, PyTorch, Scikit-learn
- **Code Editors**: Jupyter Notebook, Google Colab, VS Code
- **Frontend Technologies**: HTML5, CSS, Bootstrap, React JS
- **Data Tools**: Pandas, NumPy, Matplotlib, Seaborn
- **Visualization Platforms**: Google Sheets, Matplotlib, Seaborn
- **Version Control**: Git, GitHub

COURSE WORK

Data Structures and Algorithms | Database Management System | Computer Networks | Operating system | Machine Learning | Deep Learning | Generative AI | Software Engineering | Software Testing | Drone Technology

EXTRACURRICULAR ACTIVITIES

OPEN SOURCE CONTRIBUTIONS, Contributor

- Hacktoberfest
- Girlscript Summer of Code
- Social Summer of Code

CLUBS AND VOLUNTEER EXPERIENCE

- Core Member, Institute of Engineering and Technology (IET) Club
- Core Member, Deep Learning Student Chapter
- Core Member, IEEE Amity Student Chapter

CERTIFICATIONS

CISCO :

- CCNA: Introduction to Networks,
- Python essential I
- Python essential II

COURSERA :

- Supervised Machine Learning: Regression and Classification
- Introduction to TensorFlow for Artificial Intelligence Machine Learning, and Deep Learning
- Foundations: Data, Data, Everywhere
- Introduction to NLP