Ameen Ur Rehman

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Education

Jamia Hamdard University   **Aug 2021 – July 2025**
Bachelor of Technology in Computer Science and Engineering   *New Delhi, India*
Grade: First Division with Distinction

Experience

Research Intern   **Jun 24 – Sep 24**
MACSSL lab, Koc University   *Istanbul, TR*

- Engineering a model from 50k+ WHO literature pages to predict sentiments, conditions, and exemptions.
- Creating a scalable ML model integrating 25+ variables for precise predictions.
- Built an NLP tool that examined 1200+ WHO Executive Board meeting minutes, detecting alliances, stances, and member sentiments based on earmarking keywords.

Research Intern   **Feb 24 – July 24**
MARL lab, University of Maryland   *Remote, Baltimore, MD*

- Reduced loading time by 20% and improved robustness of the curriculum by refining the PLR.
- Exploring support and designing initial examples for 4+ multi-agent environments within Syllabus.
- Developing "Syllabus" an API for designing curricula for reinforcement learning agents, and a framework for synchronizing those curricula across environments running in multiple processes.

Research Intern   **Aug 23 – Jan 24**
Jamia Millia Islamia   *New Delhi, IND*

- Engineered a model achieving 71% accuracy in Multilingual Sentiment Analysis, using TensorFlow transformers.
- Executed rigorous experimentation and parameter optimization, resulting in a notable 27% benchmark enhancement, leveraging Sentimix-Hinglish research datasets.
- Pioneered brainstorming sessions, leading the exploration and refinement of two novel NLP projects integrating transformer methodologies, while delving into the intricate nuances of LLMs. [LOR]

Research Intern   **Aug 23 – Oct 23**
UP Lab, University of Surrey   *Remote, Guildford, UK*

- Tasked with deploying model on Hugging Face for developer access and research resources.
- Efficiently trained URBAN-SED Dataset model, systematically reviewed, and promptly resolved 10+ codebase issues.
- Explored 20+ Hugging Face resources to enhance AI deployment and updates knowledge-sharing sessions.

Undergraduate Research Assistant   **Feb 23 – Jun 23**
Jamia Hamdard   *New Delhi, IND*

- Engaged in an in-depth and systematic literature review, precisely gathering a total of 27 research papers addressing deep reinforcement learning, with a specific focus on elevating the precision of stock price predictions.
- Undertook 14 data-driven trials, yielding a significant 8% increase in the precision of forecasting stock prices.
- Improved upon the creation of 5 research reports and presentations, adeptly condensing findings and recommendations, leading to a notable 60% enhancement in report quality and overall impact.

Publications

- R. Sullivan, R. Pégoud, and **A. U. Rehman**, et al, (2024)."Syllabus: Curriculum Learning Made Easy.", research paper under-review at Neural Information Processing Systems (NeurIPS).
- **A. U. Rehman**, Abuzar, D. Nadeem, (2024)."Book Chapter: Advances in AI for Healthcare Applications.", abstract accepted, chapter under-review CRC Press (Taylor and Francis).
- **A. U. Rehman**, A. Ahmed, and A. Sadiq, et al, (2024)."Synergetic Intelligence: A Multi-Agent Learning Framework for Sustainable Healthcare Computing.", accepted at ICIDSSD 24.
- U. Rawat, Abhishek, H. Singh, **A. U. Rehman**, (2024)."Book Chapter: Cybersecurity challenges and risks in AGI development and deployment.", published at Springer, DOI.
- **A. U. Rehman**, T. Majid, and A. Javed, et al, (2023). " Enhancing Stock Price Prediction with Deep Reinforcement Learning: A Time Series Analysis Approach", ICSTAICE, DOI.
- **A. U. Rehman**, (2023). "A Comparative Study of Deep Reinforcement Learning in Robotics", presented at International Journal of Engineering Sciences and Emerging Technologies (IJESET), DOI.

Technical Skills

Languages: Python, C++, C, HTML, CSS, JavaScript, Go.
Frameworks: Scikit, TensorFlow, Keras, PyTorch, OpenCV, Flask, NodeJS.
Developer Tools: Google Colab, Jupyter, PyCharm, VSCode, OverLeaf, Docker, Github. Canva, Postman.
Technologies: ChatGPT, Bard, Git, PowerBI, AWS, WordPress.
Database: SQL, MySQL, PostgreSQL.

Projects

Agriculus | *Python, XGBoost, Deep Learning, SVM, HTML, CSS, JavaScript* | Repo Link
* Developed a precision agriculture solution with 99.3% XGBoost accuracy and 98% accuracy using a deep learning RNN model; shared sustainable farming insights through a blog.
* Expanded Agriculus with Android and web versions, winning multiple hackathons and awards for innovation.

ML Playground | *Machine Learning, Python, Scikit learn, Web Development* | Repo Link
* Established an Open Source GitHub repository with 12+ ML projects offering a 65% boost in practical examples.
* Ignited a vibrant ML community, hosting biweekly workshops with 200+ enthusiasts, fostering collaboration and innovation.

OpenCV Kit | *Python, OpenCV, Machine Learning, Mediapipe, Streamlit, CSS, JavaScript* | Repo Link
* Curated a diverse repository of real-world projects exploring deep learning and OpenCV, empowering enthusiasts.
* Championed the creation of innovative image processing algorithms, striving to integrate with YOLO versions and other cutting-edge technologies, resulting in a 7% performance enhancement.

Achievements

- **Winner** of Hack-A-Thon from 45+ Universities for AI/ML Domain.
- **Winner** of Internal Hackathon of Smart India Hackathon (SIH) 2023.
- **Finalist** of HackJNU 3.0 from 55+ Universities for AI/ML Domain.
- Fellow of Season 3 The Nights and Weekends at **buildspace**.
- AI/ML **lead** at Google Developer Student Club JH.
- **Participant** at Robotics and AI Summer School | *Institut de Robòtica i Informàtica Industrial, Spain.*
- IEEE Tech-Member **Advisor** and ML/AI **Mentor** HackClub at Jamia Hamdard.