Hamayl Zahid

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Experience

Machine Learning Research Intern   **AI Cadmey | Mar 2025 – Present | Remote**

- Developed and optimized machine learning models, improving algorithm efficiency by 15%
- Investigating AI applications in Evolutionary Biology**,** space exploration**,** and theoretical time travel simulations
- Exploring Generative AI, Reinforcement Learning, and NLP to develop cutting-edge solutions.

Artificial Intelligence Engineer Intern   **AI Cadmey | Nov 2024 – Mar 2025 | Remote**

- Developed and deployed ML models, improving processing speed by 20% and enhancing real-time predictions.
- Implemented feature engineering techniques**,** enhancing data preprocessing accuracy by 30%.
- Assisted in data preprocessing, feature engineering, and model evaluation for performance enhancement.

AI Engineer Intern   **Intern Intelligence | Feb 2025 – Present | Remote**

- Developing AI-powered automation solutions for business applications.
- Training and fine-tuning Machine Learning and Deep Learning models for various use cases.
- Trained and fine-tuned ML & DL models**,** improving predictive accuracy by **20%** for real-time AI solutions.

Front-End Development Intern   **DevelopersHub Corporation© | Dec 2024 – Feb 2025 | Remote**

- Designed and developed interactive, responsive web applications using HTML, CSS, JavaScript.
- **Integrated Web Services APIs**, enabling real-time data synchronization and increasing dynamic content efficiency by **30%.**
- Implemented front-end optimization techniques to enhance UX, speed, and accessibility.

Skills

- **programming Languages:** Python, C++, JavaScript, HTML, CSS, SQL
- **AI & Data Science:** ML, DL, Natural Language Processing (NLP), Reinforcement Learning, Computer Vision, Data Analysis
- **Developer Tools & Libraries:** TensorFlow, PyTorch, Keras, Scikit-learn, OpenCV, NumPy, Pandas, Matplotlib, Seaborn
- **Frameworks & Development Tools:** PyCharm, VS Code, Google Colab, Git, GitHub
- **Soft Skills:** Problem-Solving, Communication, Adaptability, Teamwork, Leadership

Education

Bachelor of Science in Artificial Intelligence   **Expected Graduation: 2027**
The Islamia University of Bahawalpur

CGPA: 3.95 /4.0 (Current)
Coursework: Machine Learning, Deep Learning, NLP, Computer Vision, Linear Algebra, Differential Equations, Probability & Statistics, Programming for AI, Data Structures & Algorithms (DSA), Analysis of Algorithms, Database Management (SQL).

Projects

- **Hamayl Neural Network – Custom ML Model for Exoplanet Discovery & Habitability Prediction**
  Built a custom ML model for analyzing astronomical datasets to predict exoplanet habitability, achieving **96% accuracy.** Applied geospatial AI contributing to space exploration research by predicting viable planets
- **Jupiter Moons – AI-Driven Deep Learning Framework for Life Expectancy & Resource Utilization**
  Developed a **DL framework** predicting extraterrestrial **life expectancy** & sustainable resource extraction, achieving **94% accuracy** Utilized predictive analytics, geospatial AI, and astrophysics modeling to enhance planetary research.
- **AI Ethics & Bias Evaluation – Responsible AI Development**
  Designed an AI bias detection framework to evaluate ethical implications in machine learning models, ensuring fairness, transparency, and accountability in AI-driven decision-making.
- **IOT -Based AI-Integrated Automated Plant Watering System**
  Engineered an AI-enhanced IoT automation system using Arduino, smart sensors, and predictive algorithms for optimized irrigation. Reduced water consumption and improved efficiency through real-time environmental data analysis.
- **AI-Driven Game Development – Intelligent Decision-Making & Adaptive Learning**
  Developed a **self-improving Tic-Tac-Toe engine** using **Minimax Algorithm** and **Reinforcement Learning** for strategic decision-making**.** And built a **text-based space exploration game** with rule-based AI for dynamic scenario generation, decision-making AI, and narrative-driven simulations for an immersive player experience.

Certifications

1.	Machine Learning Specialization _**deeplearning.ai,Stanford Online**	**June 2025**
2.	Python Developer – **Sololearn**	**Oct 2024**
3.	Data Analysis and Visualization with python_**IBM**	**July 2025**