Khushi Sharma

Artificial Intelligence

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SUMMARY

Passionate computer science engineer specializing in Large Language Models (LLMs), machine learning, and artificial intelligence research Focused on designing innovative solutions through advanced algorithms and data-driven insights.

WORK EXPERIENCE

Artificial Intelligence Engineer
Open Health Systems Laboratory (OHSL)

May '22 — Jun '24
United States

- Developed and fine-tuned AI models
- Optimized pre-trained models for text generation, summarization, and sentiment analysis.
- Integrated AI-driven solutions into research projects, enhancing accuracy and efficiency.
- Collaborated with cross-functional teams to deploy AI models for real-world healthcare solutions.
- Conducted research and presented findings to technical and non-technical stakeholders.

Cyber Security Intern
IFSO/CCU Delhi Police Cyber Crime Cell- Central Govt. of India
Cyber Security Intern

Jun '23 — Jul '23
New Delhi, India

- Studied and applied cybersecurity principles, focusing on strategies to safeguard sensitive information and maintain data integrity.
- Worked under professionals to gain deeper insights into cybersecurity concepts and their importance.

EDUCATION

Masters In Software Design in AI, Technological University of the Shannon (TUS)

Sep '24 — Present
Ireland

- Specialization in Artificial Intelligence, focusing on AI Research, LLM applications, and Generative AI techniques.
- Coursework includes Natural Language Processing (NLP), AI Ethics, and Machine Learning.
- Engaged in research projects related to machine learning and real-world problem-solving.

Bachelors in Computer Science Engineering in , Amity University

Sep '20 — Jun '24
India

- Focused on Data Structures, Core Computer Science Concepts, and the Fundamentals of AI & ML Research.
- Coursework included Algorithms, Operating Systems, Machine Learning , and Python.
- Developed foundational expertise in AI/ML applications, including predictive modeling and data-driven decision-making.
- **Research:** Published a Scopus-indexed paper on "Heart Disease Prediction Using Machine Learning Algorithms."

PROJECTS

Interactive Search Engine Using RAG and LLMs Link
- Key Features Retrieves and processes documents from web URLs. Uses LangChain, Hugging Face Embeddings, and ChromaDB for efficient text processing.
- Technologies Used LangChain – Framework for integrating LLMs into applications

Website Chatbot Link
- Designed a chatbot for real-time information retrieval and query resolution.
- Implemented NLP techniques to improve response accuracy and user experience.

Document Processing Question Answering System Link
- Built an AI-powered system to summarize large documents into concise insights.
- Improved processing efficiency, reducing summary generation time by 30%.

Heart Disease Prediction System Using ML Algorithms Link
- Developed a predictive model using Random Forest and SVM, achieving 85% accuracy.
- Trained on real-world datasets to assess heart disease risks effectively.

SKILLS

Technical Skills   Python, NLP, Machine Learning, AI Model Fine-Tuning, TensorFlow, PyTorch, Google Workspace, LangChain, OpenAI API, GPT-based models, Fine-Tuning LLMs, Prompt Engineering
Research Skills   AI & ML Research, Academic Paper Writing, Scientific Analysis, Biomedical Research
Soft Skills   Leadership, Teamwork, Analytical Thinking, Decision-Making, Problem-Solving
Language Proficiency   English- Fluent, Hindi- Native

PUBLICATIONS

Heart Disease Prediction System Using Machine Learning Algorithms
International Conference On Networks, Intelligence & Computing (ICONIC-2023)

Nov '23

REFRENCES

- **Dr.Paul Jacob**, Lecturer, Faculty of Engineering and Informatics, Department of Computer and Software Engineering,Technological University of Shanon, Athlone,Ireland
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- **Dr.Cormac MacGiollaEain,** Lecturer, Faculty of Engineering and Informatics, Department of Computer and Software Engineering,Technological University of Shanon, Athlone,Ireland
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