

ANKUSH CHOWDHURY

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Work Experience

Jadavpur University-Kolkata

Jan 2025 – Present

Research Intern

On-site

- Conducted research in Artificial Intelligence and Data Science, focusing on advanced deep learning techniques, Generative AI, LLM, NLP, AWS, Azure, AWS SageMaker, OpenCV. Analyzed large datasets, optimized model performance of Deep Learning and CNN models with Tensorflow and Pytorch and improved prediction accuracy. Current working on the Research and Publications in Computer Vision and advanced data science tools and techniques.

Warsaw University of Technology, Poland

Jan 2025 – DEC

Research Assistant

2025

- Research Publication: 6th International Conference on Frontiers in Computing and Systems COMSYS 2025, in Poland. Title: Pneumonia Detection from Chest X-rays Using Transfer Learning and Multi-Head Attention Mechanism.

Technical Skills

Programming Skills: C, C++, Data Structures Using C, Python, Java, R, Backend:

Django, FastAPI, Flask, Node.js, Express.js, Angular. Frontend: React, TailwindCSS, HTML, CSS, JavaScript, TypeScript, Bootstrap, UI/UX.

Specialized Languages (For AI/ML and Data Science): Python (TensorFlow, PyTorch,

Keras, NumPy, Pandas, MATLAB) – For deep learning and AI. • Advanced

DL (Transformers, BERT, RNNs, UNet). Scikit-Learn, Pyspark, Hadoop, Apache Spark, Power BI, Tableau, Statistical Analysis, IOT, Data Analyst, Matplotlib.

Specialized Skills : Cloud Computing, NLP, Snowflake, Linux, Big Data, Data pipeline, VLSI design and microelectronic, Embedded programming, Dotnet, Oracle apex, full

stack, Robotics, CAD, HTTP, MYSQL, DevOps, CI/CD, ETC, Salesforce, MS Excel, Word, Powerpoint, Docs, Sheets,

Cybersecurity, Ethical Hacking, Clouds and Databases: AWS, Google Cloud, SQL, PostgreSQL, MongoDB, RDBMS, Web Technologies: Docker, Socket.IO, Redis, Developer Tools: Postman, VS Code, GitHub, Kaggle, Xcode, advanced AI techniques such as RAG, neural networks, and natural language processing.

Education

MCKV Institute of Engineering, Howrah

2023 - 2027

B.Tech in Information Technology

8.8/10 CGPA

Indian School Certificate (ISC)

2021

75%

Indian Certificate of Secondary Education (ICSE)

2019

77%

Projects

Jadavpur University Project: AI, ML and Computer Vision projects.

[Source Code](#)

- XP-Net-Based Deep Learning model for Pneumonia Detection, Utilized multiheaded attention mechanism with an Xception model to analyze and detect pneumonia from chest X-rays and achieved accuracy of 98
- Localization and Detection of Brain Tumor Using AI: The goal is to detect and localize brain tumors from medical imaging data (like MRI or CT scans) using AI techniques, particularly deep learning models.
- Mall Customer Segmentation Using Autoencoders and Unsupervised Machine Learning Algorithms: This project utilizes autoencoders and unsupervised algorithms like K-Means Clustering, Hierarchical Clustering for effective segmentation.

Certifications

Artificial Intelligence and Data Science

July 2024 – Jan 2025

6th Batch of AI and DS

Jadavpur University

Certificate in C, C++, Python, Java, DSA Using C, SQL, Python, JavaScript, Linux

Feb 2024 – Present

and Artificial Intelligence

CMC/APTECH Computer center

Professional Skills

Business Management and Soft Skills: Communication (Verbal and Written) Problem-Solving, Time Management, Teamwork and Collaboration, Adaptability and Flexibility, Leadership and project Management, Business and Financial Analysis Critical Thinking, Attention to Detail, Creativity and Innovation, Writing and Editing: Content Writing, Proofreading, Technical Writing.