Aryus Kumar Samal

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SKILLS

- **Languages**:   Java , Python
- **Frameworks**:   PyTorch,Tensorflow(keras),NLTK,OpenCV,Scikit-learn,Streamlit,Spring,Hybernate,JSF(JavaServer Face)
- **Tools/Platforms**:   MySQL,Google Colab
- **Soft Skills**:   Problem-Solving Skills, Team Player, Project Management, Adaptability

TRAINING

- **GeekForGeeks**   June 2024 - August 2024
  Data stractures and Algorithems
  - **Project Overview**: To develop an efficient Sudoku solver using the Backtracking algorithm, a fundamental concept in Data Structures and Algorithms (DSA). The solver will take an unsolved 9×9 Sudoku grid as input and return a valid solved Sudoku board.
  - **Tech stacks used**: Java

PROJECTS

- **StreamNest - Movie streaming platform**:   Jan 2025 - March 2025

Full-Stack Video Streaming Website Development

- **User Authentication & Session Management (25%)**: Implemented secure login and registration using JSP & Servlets, ensuring user-specific access.
- **Video Upload & Streaming (30%)**: Developed an efficient system for uploading, managing, and streaming videos with optimized storage and retrieval.
- **Responsive UI Design (20%)**: Built an intuitive and mobile-friendly interface using HTML, CSS, and JavaScript.
- **Database Management (15%)**: Designed a well-structured MySQL database schema for storing video metadata and user credentials, ensuring data integrity and security with JDBC.
- **Security & Optimization (10%)**: Implemented best practices for secure database connections and efficient video handling.

Upcoming: A **Recommender System** for personalized content recommendations.

Tech: HTML, CSS, Javascript, MySQL, Servlet(HttpSessions), Deployment(Apache Tomcat)

- **GrindX - Study Tracker/Recommender/Helper**:   Jan 2025 -Feb 2025

Shareable Dashboards & Personalized Recommendation System

- **Shareable Dashboards (40%)**: Developed a live view of the Account Dashboard, integrating all account reports and enabling external sharing via links. Implemented support for agency and client logo customization, along with a **Custom Domain** setup.
- **Personalized Recommendations (25%)**: Designed a **Hybrid Recommendation System** combining **Collaborative Filtering** and **Content-Based Filtering** to enhance user experience.
- **User Profiling (15%)**: Built a profiling mechanism based on problem-solving history, tags, and difficulty levels for accurate recommendation curation.
- **Machine Learning Models (10%)**: Leveraged **PyTorch** for deep learning and **K-Nearest Neighbors (KNN)** for similarity-based recommendations.
- **Database & NLP Integration (10%)**: Integrated **MySQL** for storing user activity and problem metadata, while applying **NLP techniques** to analyze problem descriptions for improved matching.

Tech: Python, PyTorch, Scikit-learn, Machine Learning, NLP, MySQL

CERTIFICATES

- Complete Generative AI Course With Langchain and Huggingface by Krish Naik (Udemy)   Jan 2025-March 2025
- NPTEL Cloud Computing 12 Weeks bootcamp   Sept. 2024 - Dec. 2024
- Complete Data Stractures and Algorithms - Self-Paced (C++) by GFG   June 2024 - August 2024

EDUCATION

- **Lovely Professional University**   Punjab, India
  *Bachelor of Technology - Computer Science and Engineering; **CGPA: 7.25***   *Since August 2020*

- **Kendriya Vidyalaya Hissar Cantt**   Hissar , Haryana
  *Intermediate; **Percentage: 91%***   *April 2019 - March 2021*

- **Kendriya Vidyalaya Hissar Cantt**   Hissar , Haryana
  *Matriculation; **Percentage: 84%***   *April 2016 - March 2018*