Samrat Kumar Gangopadhyay

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Education

Bachelor's degree in CSE with specialization in Artificial Intelligence and Machine Learning
VELLORE INSTITUTE OF TECHNOLOGY, CHENNAI ↗
2021 – present | Chennai
Present CGPA - 8.12

HIGHER SECONDARY
LAL BAHADUR SHASTRI SENIOR SEC SCHOOL
2019 – 2021 | Kota, India
XII - 92.6% in AISSCE Examination 2021 (CBSE BOARD EXAMINATIONS)
XI - 97.6% in Grade 11 Final Exams

HIGH SCHOOL
OUR OWN ENGLISH HIGH SCHOOL
2017 – 2019 | SHARJAH, United Arab Emirates
GRADE 10 - 96.8% in AISSE Examination 2019 (CBSE BOARD EXAMINATIONS)

Skills

Data Analysis & Reporting
Data Quality Assessment | Power BI Visualizations | Excel | Data Insights and Presentation

Programming
Java | Python | C

Tools and Frameworks
 ScikitLearn | OpenCV | Tensorflow | NLTK | Face Recognition | Firebase | Computer Vision | Git | KNIME | Linux | Raspberry OS

Cloud & Automation
Azure Open AI | Power Apps | Power Automate | Power Virtual Agent | Azure Function App

Database Management
Relational Database Design | SQL | Mongo DB

Certificates

Machine Learning Specialization
Stanford University | Coursera

Python for Data Science
IIT Madras

Finlatics Business Analyst

C, C++, Java, PHP, MySql
Spoken Tutorial | IIT Bombay

Introduction to Machine Learning
IIT Kharagpur NPTEL

Data Analytics Consulting Virtual Internship Program by KPMG AU

Natural Language Processing Specialization
Stanford University | Coursera

Professional Experience

AI Intern
Crescent Petroleum
2023/08 – 2023/11 | Sharjah, United Arab Emirates
- Developed a custom chatbot using Azure OpenAI GPT, Power Virtual Agent, and Power Automate to improve user interactions and automate tasks.
- Integrated CNN models in Azure Function App for image analysis, utilizing the imagededup library to identify and remove duplicate images.
- Created a Power Apps application for real-time photo comparisons against images in SharePoint/Dataverse, enhancing user experience and providing practical solutions.

Projects

AI-Powered Resume Parsing and Career Insights
- Developed for Intel GenAI Hackathon using React, JavaScript, and MongoDB for frontend and backend integration.
- Implemented a deep learning model using **BERT** trained on resume data to identify the most suitable job roles based on resume content.
- Utilized **BERT tokenizer** for parsing resumes, extracting essential information such as skills, experiences, and qualifications.
- Integrated **LinkedIn API** to fetch and display top job vacancies matching the predicted job role.
- Used **Gemini API** to recommend personalized skill development courses based on the user's resume, improving career progression suggestions.
- Focused on **NLP** techniques for resume parsing, enhancing the job matching process through contextual understanding.
- Built a seamless experience where users could directly apply for relevant job openings and receive targeted skill development recommendations.

Smart Vision Aid for the Visually Impaired
- Developed an assistive technology device using Raspberry Pi, OpenCV, and Azure Computer Vision API to capture and process visual information for visually impaired individuals.
- Integrated real-time object recognition, scene understanding, and text extraction, delivering audio descriptions via Text-to-Speech (pyttsx3).
- Ensured system accuracy and usability through extensive testing, enhancing user independence in navigation and access to information.
- Provided user customization options, allowing for personalized audio feedback based on specific needs and preferences.
- Key technologies: Raspberry Pi, OpenCV, Azure Computer Vision API, Python, and pyttsx3 for Text-to-Speech functionality.

Unity Aid
- Designed a charity web platform using HTML, CSS, JavaScript, PHP, and MySQL
- Optimized back-end with PHP/MySQL, significantly reducing page load times.
- Created an intuitive admin panel, enhancing administrative efficiency.