

Sonali Kumari

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EDUCATION

Vellore Institute of Technology, Bhopal	Madhya Pradesh, India
Bachelor of Technology - Computer Science and Engineering	September 2023 - Present
CGPA: 8.82/10.0	
Class XII	Dhanbad, Jharkhand
Dhanbad Public School, Dhanbad	Percentage: 93.8%
	July 2021
Class X	Dhanbad, Jharkhand
Dhanbad Public School, Dhanbad	Percentage: 94.4%
	May 2019

PROJECTS

Hospital Management System	March 2025
JAVA+SQL	
<ul style="list-style-type: none">Developed a Hospital Management System using Java for the application logic and SQL for database Management.Implemented billing and inventory modules, improving administrative efficiency by 40% and reducing manual errors by 30%.Enhanced user accessibility and data retrieval speed by 50%, streamlining workflows across multiple departments.	
Heart Disease Prediction Using Machine Learning	January 2025
Machine Learning	
<ul style="list-style-type: none">Developed an advanced Machine Learning model to predict the likelihood of heart disease based on patient health metricsImproved model reliability by 20% through advanced preprocessing, feature engineering, and metric-driven model selection.Achieved 98.29% accuracy and 99.96% AUC using Random Forest after comparing 10 ML algorithms on a dataset of 1,025 patient records.	
Detection and Classification of Blood Cancer Using CNNs, Aided by Explainable AI	November 2024
Deep Learning	
<ul style="list-style-type: none">Developed a deep learning model for detection and Classification of blood cancer using explainable AI.The project involves Grad-CAM, Model used for training VGG19, VGG16, ResNet50, DenseNet121, XGBoostFocuses on PML_RARA detection	
Hybrid Design of ATS-Standard Resume Builder using Generative AI	August 2024
T5 Transformer, LAYOUTGAN, PyTorch, NumPy	
<ul style="list-style-type: none">Developed a unified AI-powered resume builder integrating both text and layout generation for ATS (Applicant Tracking System) optimization.Demonstrated capabilities in text summarization, translation, Q&A, and classification using the T5 model.Enabled dynamic layout generation through a GAN-powered pipeline with seed control and geometric scoring using NumPy and Matplotlib.	

Technical SKILLS

<ul style="list-style-type: none">Machine Learning, Object Oriented Programming, Data Structures and Algorithms, Computer Networks, Database Management SystemsLanguages- Java, Python, C++Frameworks: TensorFlow, FlaskCertifications: Vidyarthi certificate of AIML, Python, C++	
HONORS, AWARDS, HACKATHONS ,EXPERIENCE	
<ul style="list-style-type: none">Won second prize in National Mathematics week	March 2024
<ul style="list-style-type: none">Participated in VITB-JHU Health-Hack	January 2025
<ul style="list-style-type: none">Vidyarthi certificate of AIML,Python	
<ul style="list-style-type: none">Internship at IIT ISM(Research Internship)	January2024

Leadership and Volunteering

AI CLUB: Technical Team- VIT Bhopal	February 2024- Present
<ul style="list-style-type: none">Organized 3 bootcamps, 2 webinars with 200+ participants, created 3 projects and enhanced technical capabilities and fostering a collaborative learning environment related to Artificial Intelligence.	
Nation Service Scheme (N.S.S)	January 2024- January 2025