VANSHIKA RAJPARIA

Software Engineer

Contact

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WWW
Bold Profile

Personal Details

Date of Birth: 10/06/2002

Nationality: US Citizen

Marital Status: Single

Gender: Female

Skills

Coursework: Data Structures, Object-Oriented Programming, Operating Systems, Database Systems, Bioinformatics, Genomics

Programming Languages: Python, Java, C++, SQL, JavaScript, R, Bash, MATLAB.

Software Engineer with a dual background in Computer Science and Biology, currently working at Oracle on GenAI within the Cloud Database Security team on detection of security risks by generating concise, actionable audit insights. Skilled in full-stack development, machine learning, data analysis, and biology, with a passion for solving complex problems across technology, data, and life sciences.

Work history

2025-08 - Current

Member of Technical Staff

ORACLE

- Starting full-time as MTS-1 at Oracle in Aug 2025.

2024-07 - 2025-07

Software Engineering Intern

ORACLE

- Built concise summaries of audit reports using Generative AI and LLMs, highlighting key security events that could impact user data in Oracle DataSafe.
- Integrated these summaries into asynchronously generated audit reports using Generative AI, REST APIs, SQL, and Java enabling end-users to quickly identify critical fields and take timely action on potential risks.
- Developed APIs and security features, performed unit testing, end-to-end testing for DataSafe's security policies.

2023-06 - 2023-08

Summer Research Intern

University of California, Los Angeles (UCLA)

- Designed and developed an Electronic Dental Referral Management System (EDRMS) at the UCLA School of Dentistry using Microsoft Power Platform, to maximize dental coverage to all the schools in California.
- Designed a data model based on ERD principles and implemented the app's user interface and business logic, streamlining patient referrals and identifying trends enhancing overall oral health outcomes.

2022-07 - 2022-08

Summer Intern

AktivoLabs Singapore Pte. Ltd.

- Worked on Data Analytics in the healthcare domain to predict the susceptibility of the UK population to diabetes and other chronic illnesses.
- Conducted comparative analysis of predictive Machine Learning algorithms, including NLP-based classification of illness descriptions into disease categories, with model evaluation for predicting diabetes susceptibility and supporting informed healthcare decision-making.

2022-05 - 2022-07

Summer Intern

Indian Space Research Organization (ISRO), Delhi, India

- Built an RCNN-based AI/ML model for detecting solar panels in satellite imagery across Rajasthan..

Data Science: Machine Learning, Data Analytics, NLP, Deep Learning, Data Visualization.

Frameworks: React, Angular, MERN Stack, Git, REST APIs, MongoDB, Docker, AWS, TensorFlow.

Websites, Portfolios, Profiles

- vanshikarajparia.github.io/
- github.com/VanshikaRajparia

Languages

English

Bilingual or Proficient (C2)

Hindi

Bilingual or Proficient (C2)

Education

2025-07

Bachelor of Engineering: Computer Science

BITS Pilani - Hyderabad, India

- 5-year Integrated Dual Degree Program at BITS Pilani – One of India's premier technical institutions. Graduated with B.E. Computer Science and MSc. Biological Science
- Graduation with Distinction, [2025]
- CGPA: 9.01 / 10.00

2025-07

Master of Science: Biological Sciences

BITS Pilani - Hyderabad, India

- Graduation with Distinction, [2025]
- CGPA : 9.01/10

Academic Projects

CureCraft- Full Stack Web App :

- Built a full-stack medical center management app using MERN stack, with features like online booking, rescheduling, patient history, and automated email/SMS reminders.
- Implemented dynamic search with MongoDBindexing, secure REST APIs, prescription uploads, and admin dashboard with real-time analytics.

Influenza Virus Mutation Prediction - ML Model :

- Developed ML model to predict mutation probabilities for Influenza Virus proteins using feature engineering on sequence conservation, GC content, mutation type, and structural data.
- Applied a Random Forest Regressor and evaluated using cross-validation and R2 scoring.

Accomplishments

- Select among Top 10 out of 150+ international teams at Spaceport America Cup, World's Premier Collegiate Rocketry Competition : Designed a microgravity experiment on antimicrobial resistance.
- INSPIRE Scholarship Awardee by Indian Ministry of Science : Awarded to the top 1% of students in the state of Maharashtra for academic excellence in STEM.

Leadership Positions

- Secretary - Synapsis, Biology Association of BITS Pilani
- Head - Biological Payload Team @SEDS BPHC, the Rocketry Club