Vedant Sinha

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EDUCATION

VIT Bhopal University   Bhopal, India
Bachelor of Technology in Computer Science and Engineering   *Aug 2021 – May 2025*

EXPERIENCE

Programming Analyst   July 2025 – Present
Cognizant Technology Solutions   *India*

Insurance Application (Spring Boot, Angular)   *July 2025 – Dec 2025*
- Contributed to development of an insurance platform using Spring Boot and Angular.
- Enhanced and maintained RESTful APIs handling policy and claim workflows
- Configured and verified Spring Security for role based authentication and authorization
- Integrated Angular components and services to enable secure data exchange
- Validated end-to-end flows between frontend and backend, reducing functional defects by 25%

Banking Application (Automation Testing)   *Dec 2025 – Present*
- Executed automation testing for a banking application handling high-volume transactions
- Built UI automation suites using Selenium WebDriver with TestNG and Cucumber
- Developed API automation scripts using Rest Assured for account and transaction services
- Performed regression, smoke, sanity, and integration testing across releases
- Identified and reported 30+ critical defects in collaboration with development teams

PROJECTS

Crop Recommendation System Webapp | *Flask, TensorFlow, Keras, CNN, Firebase*   Jan 2025 – Mar 2025
- Built a crop recommendation web application using soil image analysis
- Implemented Flask based APIs to process image and numerical inputs
- Trained CNN and decision tree models achieving 90% prediction accuracy
- Stored trained parameters in HDF5 enabling inference under 20 seconds
- Applied confidence thresholding achieving an F1 score of 0.92

Screenshot Sorter Tool | *Vue.js, Django, OpenAI CLIP, Scikit-learn*   Mar 2025 – Apr 2025
- Designed a responsive frontend using Vue.js for bulk image uploads
- Orchestrated backend workflows in Django to process images within 3 to 4 minutes
- Leveraged OpenAI CLIP for semantic image embeddings
- Applied cosine similarity to cluster screenshots based on user defined k values
- Achieved a Silhouette Score of 0.91 indicating strong clustering performance

TECHNICAL SKILLS

Languages: Java, Python, JavaScript, TypeScript
Frameworks & Tools: Spring Boot, Angular, Selenium, TestNG, Cucumber, Rest Assured, Django
Databases: MySQL, PostgreSQL