

Sanket Purohit

[Github](#) | 669-231-9263 | sanketpurohit25@gmail.com | [LinkedIn](#)

EDUCATION

Santa Clara University | Santa Clara, CA
Master of Science, Computer Science (GPA 3.7)

Dec 2023

University of Pune | Pune, India
Bachelor of Engineering, Computer Engineering (GPA 70.15)

Jun 2018

TECHNICAL SKILLS

LANGUAGES: Python, Java, C++, C#, Dart, HTML/CSS, JavaScript, TypeScript, MySQL, MongoDB.

FRAMEWORKS: Pytorch, TensorFlow, Flutter, React, Angular, Django, .Net MVC, UiPath Re-Framework, Cypress.

LIBRARIES: Scikit-Learn, NumPy, Pandas, NLTK, Tableau, MATLAB, GitHub, Docker, AWS, Postman.

WORK EXPERIENCE

Research Assistant

May 2022 - Jun 2023

Santa Clara University Brain and Memory Care Lab | Santa Clara, CA

- Analyzed 600 CT and PET images using ITk Snap to validate the presence of abdominal stents, checking axial, sagittal, and coronal axes.
- Demonstrated the application of UNET model for segmenting head and neck tumours in multimodal data, achieving a mean dice score of 0.79 through Deep Learning frameworks such as Pytorch and MONAI.
- Optimized model performance by resampling, cropping, and scaling multi-modal CT/PET images.
- Executed the model on Linux based HPC system utilizing 1 GPU to reduce execution time by 50%.

Software Engineer

Jul 2018 - Nov 2020

Cybage Software Private Limited | Pune, India

- Developed, maintained, and tested 9 processes based on .Net MVC and UiPath Re-Framework, having execution frequency ranging from every 15 minutes to once every month. Saved over 400 man hours for the client.
- Designed highly elegant and reactive, single-page applications using Angular 7.
- Led a team of 17 engineers to oversee the implementation of best practices, based on agile methodologies.

PROJECTS

Sayyap Africa Healthcare Application

January 2024

- Developing a Flutter-based Android and IOS application to enable citizens of Senegal to make appointments in governmental hospitals, to reduce appointment-related chaos by approximately 50%.
- Developed static web pages in Flutter to input doctor information into the Firebase database and delete existing doctor records.

Twitter Financial Tweets Classification

Feb 2023

- Leveraged Machine Learning and NLP techniques to devise a multi-class classification model for finance-related tweets, achieving 79% accuracy across 20 labels.
- Built a Flask application that utilizes the model pickle file to apply the trained weights, providing immediate results for any user-inputted tweet.

Game Hub Project

Jul 2023

- Deployed a web app on Vercel video game searches, utilizing the RAWG API to filter by genres and platforms employing React.js, Typescript, and Chakra Ui.
- Built a sorting functionality for the user to sort the games based on Date Added, Popularity, Relevance, Name, and Rating.

Spaceship Titanic Classification Competition

May 2022

- Engaged in the Kaggle competition to classify 13000 rows of data into 2 labels with an accuracy of 79% leveraging Python, Numpy, Pandas, and Seaborn.
- Performed Exploratory Data Analysis to get insights into the data and improve model performance by 20%.

ACHIEVEMENTS

- Secured an All India Rank of 192/132000 (99.87 percentile) students in All India Common Entrance Test.
- Received acceptance to present Poster at SPIE Medical Imaging 2024, to demonstrate insights in leveraging CNNs for applications in medical imaging.