

Dasari Sandhya Rani
Software Engineer
ANZ Operations and Technology

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ACCOLADES & ACHIEVEMENTS

- Winner of the **ANZ GENAI Hackfest** and awarded **2k Australian dollars** in prize money. ['23]
- Awarded **100%** Scholarship in National Means cum Merit Scholarship Exam-NMMS ['21]
- Secured rank **2735** among **1.86+** million students in JEE-Advance Examination. ['17]
- Secured State **1st Rank** in Intermediate Board Examination and honored with **30k** cash prize. ['16]
- **Centum** holder in all subjects in State Board Examination 2015. ['15]

PROFESSIONAL EXPERIENCE

ANZ Operations and Technology | Software Engineer [Jun'23-present]

Acknowledged as a high-achieving team member from a team of 40; received the highest appraisal among graduates in my cohort.

- Integral part of the **ANZx** team, developing a scalable banking platform using **Golang** and **microservices** architecture. Implemented **Kafka** for **asynchronous communication** between services, enhancing system **reliability** and **scalability**.
- Proficient in **Pega** and **.NET**, specializing in optimizing business processes and delivering robust web applications with **ASP.NET**, **C#**, and **SQL Server**; hold certification as **Pega Robotics System Architect**.
- **Spearheaded** a team to develop an **automation solution** that significantly reduced business workload by **10x**.
- Established and managed CI/CD pipelines with **Jenkins**, **GitLab CI**, and **Azure DevOps**, while orchestrating **Docker** and **Kubernetes** for scalable and efficient application deployment, contributing to **technical newsletters**.

THOUGHTWORKS.PVT.LTD | ML & Big Data Analytics Internship [Dec'21-May'22]

Awarded full-time internship(1 out of 5 IITB students) acknowledging exemplary performance and sincerity in project work

- Extracted **medical data** from documents and converted it through **OCR** using the **docTR** deep learning model.
- Recorded observations and indicators against the patient's medical history using **spacy** and **medcat** libraries.
- Developed a **Label Studio app** with the **docTR** deep learning model to extract text for **multiple data reports**.
- Trained extracted unlabeled data using **semi-supervised learning**, showing accuracy improvements of **3-5%**

BAHMNI Open Source EMR ,in collab. with KCDH | DL Internship, Prof.Ganesh Ramakrishnan [Jun'22-Nov'22]

- Improved **layoutLM** deep learning model with **FUNSD dataset** with an accuracy of **80%**, **F1 score** improved by **14.4%**
- Developed pipeline to extract **key and value pairs** from a document/form using **SimpleDLM** as a pre-trained model.

PUBLICATIONS

- A. Mohammed, S. R. Dasari, Y. M. Desai, "SCF Prediction using the Finite Element Method Coupled with Sobol Sampling and Bayesian Optimization", on Soft Computing, Machine Learning and Optimisation, Civil-Comp,UK [🔗](#)
- A. Mohammed, S. R. Dasari, Y. M. Desai, "Mesh Sensitivity Study of Steel Tubular T-joints for the Computation of Stress Concentration Factors", on AIJR Proceedings [🔗](#)

KEY PROJECTS

[🔗Neural Network based approach for SCFs, MTech Thesis](#) | **DL Project, Prof. Yogesh M Desai** [Jun'22-Jun'23]

- Reduced **time complexity** by **90%**: coded algorithm in **ANSYS-APDL** using **numpy**, **pandas** libraries.
- Trained on the acquired data with **deep learning models(Bayesian Optimization)** for **primary and secondary research** to derive material properties, non-dimensional geometric **parameters dependency** insights.

[🔗Automated 3D Reconstruction from Satellite Images](#) | **Digital Image Processing, Course Project** [May'21-Jun'21]

- Developed a **stereo pipeline** including **pushbroom** sensor modeling, **geographic** coordinate systems projection and **localization functions** with **error of 0.096 pixels** for **Epipolar Rectification** and **Stereo Matching**.
- Implemented a point cloud by **triangulating the correspondences** then projects them on an **UTM** reference system.

EDUCATIONAL QUALIFICATIONS

Post Graduation: M.Tech, IIT BOMBAY, CPI: **9.49** [2021-2023]

Graduation: B.Tech, IIT TIRUPATI, CPI: **8.62** [2017-2021]

TECHNICAL SKILLS

- **Programming Languages:** Go, C, C++, Python, JavaScript, HTML, R, Typescript, \LaTeX
- **Technologies and Frameworks:** React.js, Node.js, Kafka, Hadoop, FastAPI, RESTful APIs, MongoDB, SQLite, GCP