



Dasari Sandhya Rani
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Examination	University	Institute	Year	CPI
Post Graduation	IIT Bombay	IIT Bombay	2021-23	9.49
Graduation	IIT Tirupati	IIT Tirupati	2017-21	8.62
Intermediate	BIEAP	Sri Chaitanya Junior College	2015-17	98.7
Matriculation	SSC	Sri Chaitanya Techno School	2015	100

ACCOLADES & ACHIEVEMENTS

- Awarded **100% Scholarship** in National Means cum Merit Scholarship Exam-NMMS [’21]
- Bagged **1st place** in Pictionary event conducted as a part of week of Frolic 2019. [’19]
- 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 | Pega Developer & DevOps Engineer [Jun’23-present]

- Proficient in **Pega** and **.NET**, specializing in optimizing business processes and delivering robust web applications with **ASP.NET, C, and SQL Server**.
- Certified Pega Robotics System Architect**, validating expertise and commitment to excellence in **Pega development**.
- Currently serving as a **DevOps Engineer**, automating and streamlining the software delivery process.
- Established and managed CI/CD pipelines with **Jenkins, GitLab CI, and Azure DevOps**, while orchestrating **Docker** and **Kubernetes** for scalable and efficient application deployment.

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

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| Work | <ul style="list-style-type: none">Medical Data from the documents is extracted and converted through OCR using docTR deep learning model.Recorded as observation/indicators against the patient’s medical history using spacy and medcat libraries. |
| Impact | <ul style="list-style-type: none">Developed Label Studio API with docTR deep learning model to extract the text for multiple data reports.Extracted unlabeled data is trained using semi-supervised learning which shows accuracy improvements of 3-5% compared to supervised learning with small labeled data.Ongoing research to publish a paper for upcoming 16th ACM International Conference, WSDM’23 |

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

- Improved **layoutLM** deep learning model with **FUNSD dataset** and achieved an accuracy of **80%**.
- Developing a tool to extract **key and value pairs** from a document/form using **SimpleDLM** as a pre-trained model.
- Using Simple Document Language Modelling instead of LayoutLM, the **F1 score** is improved by **14.4%**.

KEY PROJECTS

Neural Network based approach for SCFs, MTech Thesis | DL Project, Prof. Yogesh M Desai [Jun’22-Present]

- Reduced **time complexity** by **90%**: coded algorithm in **ANSYS-APDL** using **numpy, pandas** libraries.
- Training on the acquired data with **linear regression deep learning models** 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.

Road Safety Dataset | Advanced Exploratory Data Analysis, Self Project [Nov’21-Dec’21]

- Performed **advanced EDA** techniques on dataset of **363243** samples, **67** features with **15%** of missing values, **22** duplicates, **5%** of unwanted entries/recording errors, **extreme outliers**, more **skewed** value distributions and **kurtosis**.
- Narrowed down to **11** attributes using different **feature selection methods** due to their **strong correlation**.

SKILLS & EXTRA-CURRICULAR ACTIVITIES

Technical	Programming Languages and Software: C, C++, Python, Java, HTML, R, MATLAB, \LaTeX Dataframes and Databases: Hadoop, MS Office, RESTful API, ReactJS, MongoDB, SQLite Certifications: Introduction to Big Data and Hadoop, Data Structures and Algorithms in Java
Courses	AI, Data and Policy, Foundations to Machine Learning , Digital Image Processing of Remotely Sensed Data
Misc.	Teaching Assistant: Managing the course logistics for 100+ students, NSS Volunteer: 80hrs of dedication
Interests	Badminton, Swimming, Painting, Charcoal Arts, Travel and Trekking