

Purna Srivatsa

<https://www.linkedin.com/in/purna-srivatsa> | purnasrivatsa96@gmail.com | <https://github.com/purnasrivatsa96>
+91 8008397842

EDUCATION

BITS PILANI

BE Electronics and
Communication 2015-19
| Hyderabad, IN
BITS Pilani Hyderabad
Campus

LINKS

Github:// purna-srivatsa
LinkedIn:// purna-srivatsa
Quora:// purna-srivatsa

COURSEWORK

UNDERGRADUATE

Machine Learning
Object Oriented
Programming
Data Structures and
Algorithms
C Programming
Database Management
Systems
Data Mining

SKILLS

PROGRAMMING

Python • Python-Flask
• Java • C++ • HTML •
CSS • Javascript •
MySQL • PostGreSQL

OTHER

- AWS(basics) •
- Computer Vision • NLP •
- Docker(basics) • RestAPI
- SAS • OpenCV

EXPERIENCE

Deloitte USI | Data Scientist

June 2019 - Present |
Hyderabad, India

- Built Machine learning models on Audio Data for a US based **Pharmaceutical** giant. Successfully drove the POC through to development phase.
- Came up with Potential replacement to current method of administering multiple trial treatment options prior to diagnosis
- Presented a technical and scientific feasibility report, data quality requirements and an assessment of commercial devices to deploy cough diagnostic tool.

Gained exposure to signal processing, Deep learning and statistical methods for predictive modelling of audio data. Used Python, Keras, Hidden Markov Models, Signal Processing, Neural Networks and KNN.

- Built AI models to automate existing work flow process for a US based **Insurance** company. Achieved significant estimated reductions in time and effort over existing manual processes in place.
 - 5.5 million dollar estimated savings for the years 2020-22
 - 50% average reduction in pages of clinical records requiring review.

Learnt NLP methods and dealing with processing and modelling large amounts of data in most space and time efficient way. Used Python, Keras, Jupyter, Machine Learning, KNN, XGBoost, RF.

- Built a deployable Machine learning pipeline to reduce time and improve efficiency of document review process for a US based **Media and Entertainment** giant. Successfully integrated the pipeline into client's existing workflow.

Used Python, TF-IDF, Doc2Vec, NLP, Machine learning, Scikit learn, Jupyter.

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EXTRACURRICULAR ACHIEVEMENTS

- Certification - Software development processes and methodologies offered by University of Minnesota on Coursera - 94%
- Certification - Agile software development offered by University of Minnesota on Coursera - 94%
- Certification - Neural Networks and Deep learning Course offered by Standford on Coursera - 93%
- Certification - Build Web apps with python and Flask -Coursera
- Co Founder - toohungry.in (2016-2018)
Co founded a food tech startup in 2016 and led it for 2 years during college
- National level Table Tennis player - 2006 to 2012

- **Firm Initiatives** - Worked on white papers on the topics of signal processing and NLP. Built front end and back end in Python and Python-Flask for prototype of audio based AI web application

Mentor Graphics | Machine Learning Intern

July 2018 – Dec 2018 | New Delhi, IN

- Built Image classification, Object Detection and Image segmentation models on live video feed data from Self driving car simulators.
- Successfully drove the POC phase of project to completion to clinch projects in self driving domain for the development team.
- Used Python, Keras, Tensorflow, OpenCV, Neural Networks, CNN

PROJECTS AND PUBLICATIONS

- Publication - "Prediction of Water quality using Neural Network Models". Paper presented at HYDRO 2019 International conference. [Link to paper](#)
- Project - Deployable Machine Learning pipeline for Titanic Survival Prediction | [Repository Link](#) | Personal Project
 - A deployable scikit learn pipeline to plug-n-go the titanic survival prediction model on anymachine. Python, Scikit learn.
- Project - Task Manager Web Application | [Repository link](#) | Personal Project
 - A Task Manager Web app in Python- Flask and HTML
 - Used Jinja Templates and built CRUD
- Project - Quiz Management System - Java | [Repository Link](#) | Personal Project
 - Quiz Management System in Java with CRUD and File I/O Operations.
 - Built frontend in JAVA AWT
- Project - Static Website in HTML and CSS | [Repository Link](#) | Personal Project
 - A website with 3 pages giving information on Frisbee competition