

RANJEET NAGARKAR

Data Scientist & Product Development enthusiast
IIT MADRAS | GYANDATA | RBCDSAI

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Chennai, Tamil Nadu



EXPERIENCE

Junior Data Scientist-II

GYANDATA

July 2021– Ongoing Chennai, Tamil Nadu

- Development of Forecasting models, Natural Language Processing models, Data Analysis, Reinforcement Learning, Computer Vision, Development of Python Django, Flask Application
- Interacting with clients and other parties involved to use data science tools to solve real world problems and improve efficiency
- Involved in Data Science consulting and Business Development of the organization

Research Staff

Indian Institute of Technology Madras

February 2020 – April 2021 Chennai, Tamil Nadu

- MATLAB Application developer and Data science Research Staff
- Model validation techniques for Error-in-variable data, design and implementation of the application software
- Comparison study of the XPCA Dynamic/Static algorithm with other similar dynamic/static algorithms
- Resulted in the development of the XPCA Application on the MATLAB App designer Platform

Market Analyst

FUTURES FIRST

August 2019–February 2020 Hyderabad, Telangana

- Technical and Fundamental Data Analysis of Commodities Markets on the Chicago Mercantile stock exchange
- Manual Day trading in the soybean and soy meal futures on the Chicago Mercantile Stock Exchange (CME)

PROJECTS

XPCA App development

IIT Madras

February 2020–Present

- XPCA MATLAB Application is an App developed on the MATLAB App developer platform.
- The App implements the IPCA and DIPCA algorithms using the singleton design architecture
- The App/Product helps in the analysis of Error-in-Variable time series data by helping the user build mathematical models as well as validate and compare the models with other algorithms

- The Application has a user-friendly UI which took substantial iterations in finalizing the UI/UX design
- Further improvement and expansion of the algorithm and the Application to Multiple input and Multiple output (MIMO) dynamic cases

ARD Process optimization project

GYANDATA

September 2021–Present

- Reducing inefficiencies in the yearly Annual Review of Demands ARD procurement process of the Indian Navy aircraft stores CNAMS Kochi
- Development of an equipment consumption forecast model using past consumption data
- Development of NLP models for performing classification of manual remarks in the ARD procurement process
- Contributed to Development of Django python Software Application tailored to the client's dash-boarding requirements of procurement information, anomalies detection in the data and other features for increasing efficiency of the procurement process
- Deployed the developed software at Indian Navy aircraft stores CNAMS Kochi

QBSS Insurance process expedition using NLP techniques

GYANDATA–Team lead

July 2022–Present

- Used transfer learning model Clinical BERT algorithms customized to client's needs to extract medical entities from patient's medical reports
- Used dependency parsing techniques to extract relations between entities from patient's medical reports
- Worked with medical domain expert to define Domain rules to improve accuracy of model
- Achieved 90% accuracy using the two models for Named Entity Recognition and relationship extraction tasks
- Contributed to Development of Django python software Application for the client

SEMINARS & CONFERENCES

ACODS 2020 seminar

IIT Madras

February 2020

- Attended the ACODS 2020 seminar in IIT Madras and was part of the organizing team
- Attended various seminars on new developments on the MATLAB platform

RBCDSAI Colloquium 2019

IIT Madras

- Presented my time series Data analysis MATLAB Application toolbox at the Colloquium
- Attended other Machine Learning and deep Learning poster presentation events at the Colloquium

INTERNSHIPS

Summer Intern Chemical Engineer

Gharda Chemicals

📅 June 2018–July 2018 📍 Dombivli, Mumbai

- Worked on the Research and Development of a patented material with a high LOI (Limiting oxygen index)
- Worked towards the repair of LOI testing machine kit which was otherwise an added expense to the R&D facility
- Did a comprehensive report on the various testing facilities available at the Gharda Chemicals Dombivli branch

Winter Intern Engineer

Mahindra & Mahindra Limited

📅 December 2016 📍 Dombivli, Mumbai

- Identified issues facing the plant and presented possible solutions to the committee board
- Improved the oil filtration system by proposing a better mechanism for oil filtration thus saving substantial costs in oil replenishment
- Made a comprehensive report on the assembly line functioning at the plant

SKILLS

MATLAB Python MATLAB App designer
MATLAB GUIDE MATLAB Simulink Oracle SQL
Python ORM/SQLAlchemy LaTeX

Hard Working Persuasive Steadfast

AWARDS & ACHIEVEMENTS

- Awarded ₹70000 for B. Tech. Project in final semester by RBCDSAI
- Ranked in top 0.5% of the 2015 JEE Main and JEE Advanced exam held in the country
- Placed 1st in the IIT Madras Inter hostel Tech competition in 2nd year
- Placed 1st in School in 10th standard SSC examination
- Placed 10th in the MTSE Pune district merit list in 9th standard

EDUCATION

B. Tech. in Chemical Engineering

Indian Institute of Technology Madras

📅 August 2015 – July 2019

CGPA–7.63/10

Class XII (HSC)

M. H. High School and Junior college

MARKS–506/650

Class X (SSC)

Dastur Boys High School

MARKS–482/550

COURSES

- Applied Time Series Analysis
- Data Driven Modeling of Process Systems
- Programming and Data Structures
- Computational Systems Biology
- Probability, Statistics and Stochastic Process
- Linear Algebra
- Multi-variable Calculus
- Fundamentals of Operations Research
- Decision Models

EXTRA-CURRICULAR ACTIVITIES

- Part of the IIT Madras Placement Team
- Participated in the Inter hostel Triathlon competition
- Received 'A' Grade in NCC (National Cadet Corps) during 8th and 9th std.
- Participated in various public speaking events during school and college events
- Tutoring students online part time in MATLAB software and other engineering subjects

LANGUAGES

English
Hindi
Marathi

