Ranjeet Nagarkar

GYANDATA | IIT MADRAS | RBCDSAI

Mobile: +91-9940109221
Email: ranjeet.sn96@gmail.com
GitHub: https://github.com/ranjeetsn

CAREER OBJECTIVE

Steadfast, Passionate, Diligent student, committed to learning, and ready for challenges. Willingness to take on added responsibilities to meet team goals, enhance my professional skills, and gain knowledge while making a positive contribution to society. To study in an institution that recognizes the value of hard work and trusts me with responsibilities and challenges.

EDUCATION

Indian Institute of Technology Madras, Chennai, India

B. Tech. Chemical Engineering: - CGPA - 7.63/10

Dastur Boys High School, Pune, India

Class X (SSC) – MARKS - 482/550

Class XII (HSC) – MARKS - 506/650

JOB EXPERIENCE

Job position: Junior Data Scientist-II at GyanData Private Limited, Chennai (July 2021-Present)

- Development of Forecasting models, Natural Language Processing models, Data Analysis, Reinforcement Learning, Computer Vision, Development of Python Django Application
- Involved in Data Science consulting and Business Development of the organization

Job position: Research Staff at Indian Institute of Technology Madras, Chennai (February 2020-April 2021)

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

Job position: Market Analyst at FUTURES FIRST Hyderabad (August 2019-February 2020)

- Data Analysis of Commodities Markets on the Chicago stock exchange
- Manual Day trading in the soybean and soymeal futures on the Chicago Stock Exchange (CME)

PROJECTS

Project name: XPCA App development (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

Project name: ARD Process optimization project (September 2021-Present)

- Reducing inefficiencies in the yearly Annual Review of Demands (ARD) procurement process of the Indian Navy aircraft stores (Kochi branch)
- Project involved the development of an equipment consumption forecast model using past consumption data.
- Using NLP models for grouping of manual remarks given in the ARD procurement process
- Contributed to Development of Django python Software Application tailored to the client's dashboarding requirements of procurement information, anomalies detection in the data and other features for increasing efficiency of the procurement process
- Deployed the developed software at CNAMS Kochi

Project name: QBSS Insurance process expedition using NLP techniques (July 2022-Present) (Team lead)
- Used transfer model Clinical BERT algorithms to extract main 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

Project name: Metaheuristic algorithm FOCuS testing and comparison studies (December 2017-April 2018)

- Testing the FOCuS algorithm for computing reaction/gene knockouts from genome-scale Metabolic models for strain optimization as well as comparison of the FOCuS algorithm with algorithms like

OptKnock, ReacKnock:, GDLS, etc
- Concluded that the meta-heuristic solution generated using the FOCuS algorithm produced substantially higher flux biomass compared to other similar heuristic algorithms

SEMINARS

Seminar: 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

IIT Madras | RBCDSAI Colloquium 2019:

- Presented my time series Data analysis MATLAB Application toolbox at the Colloquium
- Attended other events at the Colloquium

INTERNSHIPS

Internship: Summer Intern Chemical Engineer, Gharda Chemicals, Dombivli (June 2018-July 2018)

- Worked in the Research and Development of 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

Internship: Winter Intern Engineer, Mahindra and Mahindra Limited (December-2016)

- Improved the oil filtration system by proposing a better mechanism for oil filtration thus saving substantial costs in oil replenishment.

COURSES

- Applied Time Series Analysis
- Data Driven Modeling of Process Systems
- Decision Models

- Fundamentals of Operations Research
- Programming and Data Structures
- Computational Systems Biology
- Probability, Statistics and Stochastic Process

SKILLS

Softwares:

MATLAB, MATLAB App designer, MATLAB GUIDE, Python, Oracle SQL, Python ORM/SQL Alchemy

PERSONAL SKILLS

- High levels of confidence Dynamic and Hardworking Team spirit and always willing to learn
- Good at the interpersonal relationships and communications
- Good at strategic planning, Critical thinking, and multitasking

AWARDS/ACHIEVEMENTS

- 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
- Placed 1st in School in 10th standard SSC examination
- Placed 10th in the MTSE Pune district merit list in 9th standard

EXTRA-CURRICULAR ACTIVITIES

- Part of the IIT Madras Placement Team
- Actively participate on Kaggle
- 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