

RAVI M

+91 8106705356 | ravimasna.tech@gmail.com

LinkedIn: www.linkedin.com/in/ravi-masna-b70000288

PROFILE SUMMARY

Python Developer | 4.1 years in FastAPI/Django web API | Proficient in SQL & NoSQL DBs | Skilled in GCP/AWS | 1+ years Physics Lecturer | 4+ years geophysics research | Committed to staying updated with the latest industry trends and continuously expanding skill set, currently exploring technologies such as Docker, Kubernetes, and PySpark to enhance development capabilities.

TECHNICAL SKILLS

- ✓ Programming Languages – Python
- ✓ Web Frameworks – FastAPI, Django
- ✓ Database Technologies – MySQL, PostgreSQL, MongoDB
- ✓ Event-driven micro services- Kafka
- ✓ Python Libraries – Numpy, Pandas, scikit-learn, keras
- ✓ Cloud Technologies – AWS (EC2, RDS, S3, Lambda), GCP (VM, Scheduler, Cloud Run, App Engine)
- ✓ Machine Learning – Time series Forecasting, AR, ARIMA, SARIMA, XGBoost, Regression, classification
- ✓ Deep Learning – LSTM, RNN
- ✓ Hands on experience in Hugging Face Transformers
- ✓ Version Control – Git
- ✓ Agile - Jira
- ✓ Hands on knowledge/Experience in CI/CD

WORK EXPERIENCE

Software Engineer (Python) | Logicshore IT Consulting | Milton Keynes, England Nov, 2022-Jul, 2023

Project Name: EMIT-Communication-Service

Client: EP Tech (Energy Potential Tech Solutions Ltd), UK

Domain: Energy

Technologies: FastAPI, GCP, SFTP, Docker, GitHub, CI/CD, PostgreSQL, ML

Description: Energy Potential Tech, with its deep expertise in the UK electricity market, utilizes the INFINITY cloud platform to address evolving regulatory needs. The platform enables asset management, meter industry data-flows, core billing processes, payments, and provides analytics for better investment decisions. EMIT (part of INFINITY) facilitates the movement of files between SFTP (VM instances) and GCP Buckets based on predefined rules.

Responsibilities:

- Developed admin and user sessions, incorporating role-based access control.
- Implemented rules for source and destination folders, including connection parameters. Implemented file processing logic by checking the first line against defined rules and routing the file to the appropriate destination.
- Scheduled the file processing task to run every hour using the cron scheduler in GCP. Facilitated bulk uploading of rules by integrating an Excel file upload feature to the API.

- Developed event-driven programme to count the number of file moved to show in dashboard.
- Developed ML/DL model to predict the energy consumption with different methods (Lasso, Ridge, SARIMA, XGB, LSTM) to display in dashboard.
- The results show that the linear models, Lasso and Ridge, have identical average RMSE and r^2 scores
- The tree based model, Xtreme Gradient Boosting (XGB) has the best RMSE compared to all other linear and tree based models.

Python Developer | Talentkind Solutions LLP | Hyderabad, India

Jan, 2021-Sep, 2022

Client: Talentkind Solutions LLP, Hyderabad

Domain: IT - Entertainment

Technologies: FastAPI, AWS, Django, MongoDB, MySQL, Excel, LSTM

Description: Talentkind Solutions is a comprehensive website that serves as both a job portal for talents in the Media, Arts, and Entertainment industry and a repository of data for companies, organizations, and skill providers in the industry.

Responsibilities:

- Developed APIs for the company website, enabling seamless functionality.
- Collaborated closely with the Project Manager and team to implement server-side logic.
- Utilized NoSQL (MongoDB) and SQL databases (MySQL) to store and manage data.
- Leveraged AWS services (S3, RDS, EC2) for file storage and temporary local development deployment.
- Led coding, design, deployment, and debugging activities for development projects, focusing on the server-side (back end).
- Utilized Python, SQL, Django, and FastAPI to develop APIs for web application development.
- Implemented session management for users and performed CRUD operations with access permissions.
- Developed Python packages, including Shorturl service and Activity log service, to monitor anonymous users on the website.
- Performed data wrangling tasks, such as migrating data from SQL to NoSQL and scraping web content to extract a list of Arts and Entertainment-related colleges in usable Excel format.
- Implemented LSTM model to suggest gender based on name for user registration in the application

Python Developer | Anna IT Services | Hyderabad, India

May, 2019-Jan, 2021

- Designed and developed dynamic e-commerce web applications using Django framework, enhancing user experience and increasing conversion rates.
- Created and maintained RESTful APIs for seamless communication between the front-end and back-end systems, enabling smooth integration of new features.
- Implemented user authentication, registration, and profile management features, enhancing security and personalization for customers.
- Developed custom product catalog and inventory management systems, allowing easy addition, updating, and removal of products by administrators.
- Utilized Django's ORM to manage and interact with databases (MySQL), ensuring efficient data storage, retrieval, and manipulation.
- Implemented SEO best practices, optimizing website content and structure for higher search engine rankings and visibility.

Physics Lecturer | Navyajyothi Junior College | Devarakonda

Jun, 2017-Mar, 2019

- Motivated students to learn Physics use of various teaching aids.

- Encouraged problem-solving with conceptual understanding among students.
- Analyzed student scores and identified their strengths and weaknesses in related subjects.

Project Assistant (Contract Basis) | CSIR-NGRI | Hyderabad, India

Sep, 2012-Mar, 2017

- Research work on statistical modelling and forecasting on earthquake data for Koyna –wara region, Maharashtra. This was a part of MoES government project.
- Conducted data cleaning and formatting tasks.
- Performed correlation analysis to identify relationships between water level data of wells.
- Utilized entropy calculations on reservoir and well water level data to measure disorderliness.
- Conducted data analysis, visualization, and prepared technical reports
- Collection of data and finding co-, pre-, and post-seismic changes in water level data in Koyna-warna Region, Maharashtra.
- Climate modelling studies for land- atmosphere interaction.
- Analyzing Real-time Earthquake data for its possible occurrence and calculating the Location, Time, and Magnitude of the Earthquake. Preparing Earthquake Hazard Map of Indian Subcontinent.

EDUCATION

Master's | Geophysics | Osmania University, Hyderabad

Aug, 2010 – May, 2012

✚ CGPA: 8.22

✚ Project work “Seismic API (Acquisition, Processing and Interpretation)” ONGC, Chennai

Bachelor's | Computer Science | NG college, Nalgonda

Aug, 2006 – May, 2009

ONLINE CERTIFICATIONS (UDEMY)

- ❖ Machine Learning A-Z™: AI, Python & R + ChatGPT Bonus [2023]
- ❖ Scala and Spark for Big Data and Machine Learning

PUBLICATIONS

- ✚ Kuempel, HJ., Chadha, R.K., Ramana, D.V. et al. In-situ pore pressure variations in Koyna-Warna — A promising key to understand triggered earthquakes. J Geol Soc India 90, 678–683 (2017).
<https://doi.org/10.1007/s12594-017-0775-8>
- ✚ Ravi, M., Ramana, DV., Singh, RN. Subsurface temperatures for increase in air temperature. J. Ind. Geophys. Union (April 2016), v.20, no.2, pp: 241-248.
- ✚ Ravi, M., Ramana, DV., Kirti Srivastava. Subsurface Temperature Variations Due to Exponential Air Temperature Model, International Journal of Science and Research, Volume 5 Issue 8, August 2016, 1141 – 1145.