

# REENAL BODDUL

Data Scientist / Software Developer

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🔗 <https://github.com/reenal>   📍 Stockholm, Sweden



## SUMMARY

- Equipped with scientific in-depth knowledge and good interpersonal skills.
- Quick learning abilities to adapt to current technology and market need.
- Skilled in crafting ChatBots and virtual assistants.
- 6+ years of experience in Software Development and 3years' experience as Data Scientist.
- Self, motivated, dedicated, a team-oriented individual who strives to collaborate with others to reach the best possible outcome with a flexible mindset.
- Skilled with translation of business language components to tech and vice versa.
- A visionary technologist with hand on experience in applying Data Science techniques like Data Analysis, machine learning, Deep learning, Convolution Neural Network, Computer vision to business and engineering problem.

## WORK EXPERIENCE

### Data Scientist

#### Mainly.AI

📅 03/2021 - 02/2024  
📍 Stockholm, Sweden

### Consultant

#### Dewberry

📅 12/2019 - 02/2021  
📍 Uttar Pradesh, India

### Consultant

#### BlackPond Global Digital Systems Private Limited

📅 08/2018 - 02/2019   📍 Bangalore, India

### Developer Intern

#### Social Profile AB

📅 09/2017 - 06/2018  
📍 Stockholm, Sweden

### Consultant

#### CITROSOFIT

📅 12/2016 - 02/2017   📍 Stockholm, Sweden

### Software Engineer

#### Twinprime labs Software Development PVT LTD

📅 03/2014 - 09/2015   📍 Pune, India

### Software Engineer

#### Cloud It Solution PVT LTD

📅 06/2012 - 10/2013   📍 Pune, India

## SKILLS

### Languages

Python   PHP   Core Java

### Development Tools

Jupyter Notebook   VSCode   Sublime Text   NetBeans   Postman

Google Colaboratory   Docker   JIRA

### Libraries / Frameworks

Sklearn   NumPy   Pandas   Matplotlib   Open CV   Keras   Flask

TensorFlow   PyTorch   lifeline   EvidentlyAI   Streamlit   Transformers

LangChain   Gensim   Gradio   PyTest

### Algorithms

Regression   Classification   Clustering   Neural Networks   Llama

Survival Analysis   Deep Learning with Keras   Predictive Modelling

### Key Skill

Project Scoping   Data Cleaning   Data Visualization   Data Analytic

Database Management   MLflow   Web Scraping   ML Algorithms

Model Development   MLOps   Building Docker   OpenAI   Statistics

Agile Methodology   SDLC Life Cycle   End-to-End ML Project Lifecycle

CICD   Stay Up To Date With The Latest Developments In GENAI

### Operating Systems And Version / Configuration

Windows   Linux   Git   Bitbucket

### Cloud / Services

Azure   AWS   AWS ECR   GCP   Heroku   Hugging Face Spaces

### Server

Apache Tomcat   Nginx

### Database

MYSQL   PostgreSQL   MongoDB   Pinecone

### Web Technologies

JAVA SCRIPT   HTML   AJAX   JQUERY   Rest API   FastAPI

## PROJECTS

### Asset

Objective is to find child will develop Type 1 diabetes or not and when.

(<https://www.asset.healthcare/>)

#### Responsibility:

- Requirement gathering and convert business requirement to use case.
- Understand various data file and convert unstructured data to structured data which can be used for model building i.e., Data Wrangling.
- Sparse, complex, and large data handling and data analysis (EDA) to identify data trends, patterns, and insights. Develop crisp visualizations.
- Solution designing, Model Design and Development Multitask temporal approach (MTTM).
- Evaluating model performance using metrics like accuracy, precision, recall, and F1-score, Optimizing model.
- Building docker image and containerized application.
- Check various SOTA Paper feasible for our solution and implement.
- To routinely communicate metrics, progresses and other key indicators and explain complex technical concepts to both technical and non-technical stakeholders.

### Alistair Project

Predict future humidity

#### Responsibility:

- Involved in requirement gathering, data collection from sensor.
- Cleaning and pre-processing raw data to prepare it for analysis.
- Choose algorithm is best to solve this problem.
- Time series Model building ISTM seq to seq time series forecasting.
- Hyper parameter tuning with keras tuner to make it robust.

### Bhagavad Gita Chatbot (POC)

Create chatbot to provide relevant responses to commonly asked questions about the Bhagavad Gita

**GitHub:** (<https://github.com/reenal/geeta-chatbot>)

#### Responsibility:

- Explore Llama2 another open-source and closed source model and lead the development and enhancement of AI Conversational Agents, leveraging your expertise in Large Language Models (LLMs).
- Data extracted data create chunk, natural language processing.
- Find different vector embedding techniques and different embeddings model.
- Checking out vector databases Store semantic index on Pinecone vector DB.
- Create end to end web app using flask and create docker image for deployment.

### False Alarm Detection System

Further detection of false alarm using various machine learning techniques.

#### Responsibility:

- Data analysis and data cleaning on extracted data.
- Model building.
- REST APIs using Flask.

## SKILLS

### Soft Skills

Analytical Thinking

Problem-Solving

Teamwork

Effective Communication And Collaborating With Cross-Functional Teams

## EDUCATION

### M.TECH (Industrial Mathematics with Computer Applications)

Pune University

08/2008 - 04/2011

Pune, India

### B.Sc. (Electronics)

Pune University

07/2005 - 05/2008

Pune, India

## CERTIFICATION

### DAC (Diploma in Advance Computing) from C-DAC

<http://cdac.in/index.aspx>

### Deep Learning Master

<https://ineuron.ai/>

### Stats For Data Science

<https://ineuron.ai/>

## OPEN-SOURCE CONTRIBUTION



GenAI Stack is an end-to-end framework for the integration of LLMs into any application.



PyCaret, an open source, low-code machine learning library in Python



Open LLMs. <https://github.com/reenal/open-llms>

## PASSIONS



Mentoring 60+ and Speaker



Cricket Coaching

## ACHIEVEMENTS



### Publication of Success Story in WINDS Pune and Ineuron

Published my success story highlighting my transition and achievements within the field of data science and machine learning.

<https://wimdspune.wordpress.com/2022/04/02/reenal-boddul/>

[https://halloffame.ineuron.ai/achiever/Reenal-Zampal-\(Boddul\)-AtQRPU](https://halloffame.ineuron.ai/achiever/Reenal-Zampal-(Boddul)-AtQRPU)



### Cricket Coach Level 1 Certification from ICC

Achieving certification as a Cricket Coach Level 1 from ICC, emphasizing my passion for cricket and dedication to sharing knowledge.

<https://www.linkedin.com/in/reenal-zampal-boddul-29273826/details/certifications/>

## PUBLICATIONS

### Early Indication of Individuals at High Risk of Developing Type 1 Diabetes

Reenal | Florence | 2024

E-Poster