Supratim Haldar

Bangalore, India
Phone: +91 8884688864

Email: supratimh@gmail.com   **Website:** https://supratimh.github.io
GitHub: https://github.com/SupratimH   **Kaggle:** https://www.kaggle.com/supratimhaldar

---

- Working as **Solution Architect** for **Oracle**, building products with **advanced predictive capabilities**.
- Self-driven, quick learner and passionate about data with strong business acumen and problem-solving capabilities.
- Sound knowledge of **Statistics**, **Linear Algebra**, **Calculus** and **Machine Learning Algorithms**.
- Ranked among **top 20%** answerers on Python in Stackoverflow.
- Looking forward to leveraging my functional and technical knowledge and experience in a role as **Data Scientist** / **Machine Learning Architect**.
- Insightful experience in **Telecommunications, online retail** and **any Digital-Service-Provider** business domains.
- Experienced in working as part of both **Product Development/Engineering** and **Project Implementation/Consulting** teams across organizations.
- Exposure to building **large-scale applications intertwined with Predictive Analytics capabilities**, catering to both B2B and B2C markets.

KEY SKILLS/KNOWLEDGE

- **Programming:**
  - **Proficient:** Python (including Numpy, Scipy, Sklearn, Pandas, Matplotlib, Seaborn, Plotly), C
  - **Intermediate:** Tensorflow and Keras
- Data Structures, Algorithms and Design Patterns
- **Database:** SQL, PL/SQL, NoSQL (MongoDB)
- **In-depth mathematical and hands-on understanding of M/L and D/L algorithms**:
  - Regression and Classification
  - CART and Decision Forests and other Ensemble Methods
  - K-Means Clustering, PCA, Anomaly Detection, Collaborative-Filtering and Content-Based Filtering Recommenders
  - Deep Neural Network, Convolution Neural Network
- Data Ingestion (including web scraping), Data Visualization, Exploratory Data Analysis, Feature Engineering, Predictive Modelling, Data Mining, Pipeline and Ceiling Analysis methods, ETL
- **REST Architecture and Principles, Microservices** architecture pattern
- **Methodology:** Waterfall, Agile and Scrum, Business Process Modelling
- **Tools:** Rational Rose, MS Project, MS Visio, Confluence, GIT, SVN, CVS, JIRA, Quality Center etc.
- **Architecture Concepts:** TOGAF, TMForum Frameworx, UML, ITIL

PERSONAL PROJECT PORTFOLIO

A snapshot of few projects is provided below. For complete details of all projects, please visit http://supratimh.github.io
- At present, I am working on building a classifier to predict result of ODI cricket match, before the match begins. I have "scrapped" the required data and first version of the model is ready. Prediction accuracy on matches of ICC World Cup 2019 has been ~80% so far.

- Identifying outdoor scenery using convolution neural network – as part of an online challenge, built a classifier which can predict presence of an outdoor scene (eg – mountains, glaciers etc) with an accuracy of ~97% on train data and ~94% on test data
- What's happening on the roads of Bangalore? - An analysis of accident data on Bangalore roads, collected by Intel CAS in BBMP buses
- Neural Style Transfer - Generating art using Deep Learning
- Implementation of key M/L algorithms from scratch in Python
- Developed datasets through web-scraping - AllSides : Ratings of bias in electronic media and BikeWise.org : Bike related reported incidents

PROFESSIONAL EXPERIENCE

ORACLE INDIA   **Bangalore, India**
Solution Architect of apps and analytics products (IC Role)   **April 2009 – Present**

Roles and Responsibilities:
- Working as a **Solution Architect** in Oracle Communications Consulting Business Unit.
- At present, working as Lead Architect of a **Hybrid Cloud Solution with Predictive Analytics Capability for Communication Industry** (CX on cloud, and order orchestration, service fulfillment, monetizing and analytical functionalities on premise).
    - Responsible for **designing end-to-end architecture**, **business process framework** and **design of M/L framework**.
    - Playing a mixed role of **Architect** and **Data Scientist**, in **strategizing the roadmap** of the solution suite and **designing and building solutions**.
    - Some of the use cases for which I was part of **Machine Learning Model** design:
        - **Cluster Analysis** to generate segmented profile of customers
        - **Classification** model to predict whether a customer might **churn,** with accuracy of ~90% on real-world data
        - Recommend next best offer to customers based in multiple attributes
- Attend workshops with business teams of clients to understand their business needs, process and objectives.
- Proficient in translation of business requirements into functional and technical requirements, and guidance to implementation team in design and development activities.

Some of the key businesses I had the privilege to worked with:
- **Europe:** Vodafone Malta and multiple Vodafone OpCos in Europe
- **Asia:** Dhiraagu Maldives, Atria India, Uninor India
- **North America:** Equifax in Atlanta, Verizon Telematics (HUM) in Atlanta, Charter Communications in St. Louis, Sirius XM Satellite Radio in New York City, Dell (Auto Renewal Service)

AMDOCS DEVELOPMENT LTD.   **Limassol, Cyprus**
Senior Subject Matter Expert   **July 2005 - February 2009**

- Worked as a Development Team Lead for both **Amdocs Engineering and Implementation Teams**
- Some of the key projects I was involved in: AT&T and Sprint, USA

EDUCATION

- University of Kalyani, West Bengal, India - B.Tech (IT)

- **Machine Learning** by Stanford University (through Coursera)
- **Neural Networks and Deep Learning** by deeplearning.ai (through Coursera)