

Azhar Ahmed Mohammed

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Objective

To secure a position in which I can utilize my analytical and machine learning skills to solve real world problems.

Education

- 2013 Aug - 2015 Jun **Master of Science in Computing and Information Systems (CIS)**, *Masdar Institute of Science and Technology*, Abu Dhabi, GPA:4.0 .
Thesis : Probabilistic Forecasting of Solar Power: an Ensemble Learning Approach
Major Courses : Data Mining, Design and Analysis of Algorithms, Machine Learning
- 2007 Aug - 2011 May **Bachelor of Engineering in Computer Science and Engineering**, *Chaitanya Bharathi Institute of Technology*, Hyderabad, Percentage : 80.

Work Experience

- 2013 Aug - 2015 Jun **Research Assistant**, *Masdar Institute of Science and Technology*.
Probabilistic forecasting of month ahead solar power generation.
Using Python's Scikit learn module to generate forecasts using an ensemble of regression models.
The results of this work were accepted for publication at the seventh international conference on Intelligent Decision Technologies.
Roles: Independent research, coding, unit testing, documentation, scientific writing
- 2014 May - 2014 Aug **Intern**, *Serendio Inc.*, Chennai.
Built an end to end recommendation engine on Bigdata platform Spark.
Cassandra, Spark, Scala, Python among others were used during its implementation.
Roles: Architecture design, coding, unit testing
- 2011 July - 2013 Jun **Programmer Analyst**, *Cognizant Technology Solutions*, Chennai and Hyderabad.
Worked as a mainframes programmer to generate financial reports for an investment bank.
Roles: requirements gathering, coding unit testing, system testing and production support.

Technical Skills

- **Machine Learning Tools:** Scikit-Learn, Scipy, Numpy, Pandas, WEKA, MLlib - Spark
- **Languages**
 - Proficient: Python
 - Intermediate : R, MATLAB
 - Beginner : COBOL,Java, Android Application Development, HTML, PHP, Scala
- **Operating Systems:** Windows, Linux, Mainframe operating system: z/OS
- **Database Systems:** Cassandra, Hive, MySQL, IBM DB2

Data Science and Coding Competitions

- Finished 18th out of 1233 **Africa Soil Property Prediction Challenge**, *Kaggle*.
- Finished 10th out of 25 **Global Energy Forecasting Competition 2014 Probabilistic Solar Power Forecasting**, *CrowdANALYTIX* .
- Ranked 320 out of 1720 **IEEEExtreme 8.0 24-Hour Programming Competition**, *Finished first in UAE* .

Publications

- [1] AzharAhmed Mohammed, Waheeb Yaqub, and Zeyar Aung. Probabilistic forecasting of solar power: An ensemble learning approach. In *Intelligent Decision Technologies*, volume 39 of *Smart Innovation, Systems and Technologies*, pages 449–458. Springer International Publishing, 2015.
- [2] Waheeb Yaqub, AzharAhmed Mohammed, and Zeyar Aung. Empirical study of probability and severity of an event on human communication network. In *UKSIM-AMSS 17th International Conference on Modelling and Simulation*. IEEE Computer Society, 2015.