



# Melvin F

## Data Engineer Senior Analyst

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To work enthusiastically to achieve the organisation objective and to get conducive environment to learn and grow and I'm truly passionate about data science, machine learning & AI.

## EDUCATION

### M.E Computer science and engineering with Specialisation in Big Data Analytics

Anna university, College of Engineering, Chennai

2015 - 2017

8.09

#### Course Project:

- **Dynamic Route Planning with Traffic and Air Quality prediction in IOT. (IBM Sponsored):** Developed a system which detects and predicts traffic congestion rate and air pollution level in the route(s). Created a statistics-based, fully autonomous, self-evolving data clustering algorithm to find the best route. and notify the user about the pollution level and traffic rate periodically, which is helpful for persons with respiratory disorders through web application.

### B.E Computer science and engineering

Mepco Schlenk Engineering College, Sivakasi

2011 - 2015

7.21

#### Course Project:

- A Smart Phone Location Based SOS System which alerts nearby Application users during emergency based on geo-coordinates of the person.

## WORK EXPERIENCE

### Data Engineer Senior Analyst

Accenture

10/2021 - Present

Chennai, Tamil Nadu

#### Projects

- **Client - Intel (IOTG, marketplace, Points, Adobe experience platform, APIs):** Created various HQL/Impala views based on the client requirements in intel marketplace, points, iotg, and adobe experience platform projects. Various APIs are also created for these HQL data views using denodo and apigee. Took responsible of analysis, coding and deployment of these projects and got exposed to SDLC.

## TECHNICAL SKILLS

### Python

Numpy, Pandas, SK-Learn, Matplotlib, Pycaret, Seaborn, NLTK, Tensorflow, Spacy, Flask etc

### Big data

Hadoop, Pyspark.

### Data science

Machine learning, Deep learning, NLP, Statistical analysis.

### Cloud computing

AWS EC2, SAM, Cloudformation, Azure databricks, ECS.

### ETL:

AWS GLUE.

### Database

MySQL, MongoDB, DynamoDB.

### Query languages

Hive, Impala

### Data/OS virtualization and API

Denodo, Apigee, Docker

## HONOR AWARDS

### BEST PROJECT AWARD

Mepco schlenk engineering college

- Have acquired BEST PROJECT AWARD for the project Smart phone based SOS system during the academic year 2014 - 2015.

### DISTRICT LEVEL AWARD FOR ANIMATION

Tamil nadu Government

- Have acquired district level award for a animation contest conducted by tamil nadu government.

## WORK EXPERIENCE

### Software developer

Roanuz softwares

08/2019 - 10/2021

Chennai, Tamil Nadu

#### Projects

- **Batsman runs & Betting odds:** Developed a model to predict the score of a player and winnings odds of a team based on player's and team's past performance. The data to train and test were extracted from proprietary data from S3 bucket & internal APIs such as ball-by-ball, match APIs. Implemented a deep learning model (ANN) using tensorflow to achieve the objective and deployed as RESTAPI in AWS EC2 instance for retraining.
- **Virtual cricket:** Developed a system to simulate cricket matches which balanced our product sales during pandemic period which retained 75% of Roanuz sports system customers. Extracted proprietary data from various internal APIs such as match, ball-by-ball, player performance, team performance for training and testing purpose. Developed and deployed the following models in AWS EC2 for retraining and prediction; toss prediction model, playing xi prediction model, bowler selection model, runs prediction model, ball outcome prediction model, extras prediction model and match winner prediction model using random forest classifier and random forest regressor.
- **Name validation in Webforms using tensorflow:** A deep learning model to identify and validate the name entered in webforms of the Roanuz business system. Extracted various names from the web based on ethnicity and gender. Created an ANN to classify if the given name is valid or not based on gender.
- **Roanuz sports fantasy APIs:** An API to build fantasy applications for cricket and football which Uses default rules to build the API. Customised fantasy points were also developed based on the client's rule specification.
- **Roanuz sports test bot:** A bot system developed using SAM to validate the proprietary APIs of the Roanuz sports system. Various python scripts run at a regular interval and notify the SLACK with log files if the system goes down at any cause.

### Associate analyst

Infosys

02/2018 - 07/2019

Pune, Maharashtra

#### Projects

- **Alert Generation of Prices using PySpark:** Developed a predictive analytics system in azure databricks using pyspark to predict and monitor the future sales of retailer at various levels using regression models and generated reports.

## CERTIFICATES

Data Analyst Nano Degree from Udacity.

Applied Machine Learning: Foundations

Introduction to TensorFlow for Artificial Intelligence, Machine Learning, and Deep Learning

Convolutional Neural Networks in TensorFlow

## LANGUAGES

Tamil

*Native or Bilingual Proficiency*

English

*Professional Working Proficiency*

## INTERESTS

★ Wildlife Photography

★ Internet Surfing

★ Listening to music

★ Bird watching

## ORGANIZATIONS

Infosys (02/2018 - 07/2019)

*1.5 years*

Roanuz (08/2019 - 10/2021)

*2.2 years*

Accenture (10/2021 - Present)

*1.1 years*