Phaneendra Kumar Gunda
Machine Learning & NLP Engineer
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PROFESSIONAL EXPERIENCE

Xoriant, Bangalore, India - March 2018 to Present
Product Developer for Machine Learning and NLP Applications

Project : Automates Staffing
Duration : July 2019 – present
Technologies : Machine Learning, NLP
Description : Extract the skills, user meta data etc. from the Resume and predict the Job Title.
My Role:
- ➢ Understand the client requirements.
- ➢ Design the solution with the help of Solution architect.
- ➢ Develop and deploy the solution.

Project : Recommendation System
Duration : April 2019 – June 2019
Technologies : Machine Learning, Matrix Factorization, SageMaker
Description : Recommend new offers to the user based on his preferences and recent transactions.
My Role:
- ➢ Understand the client requirements.
- ➢ Design the solution with the help of Solution architect.
- ➢ Develop and deploy the solution on AWS SageMaker.

Project : Taxonomy Generation
Duration : January 2019 – March 2019
Technologies : Machine Learning, Natural Language Processing(NLP)
Description : Create a domain taxonomy from the unseen documents.
My Role:
- ➢ Reading the papers and work with architecture to implement the auto taxonomy creation from the unseen documents.

Project : Integrity Due Diligence
Duration : March 2018 – December 2018
Client : KPMG
Technologies : Machine Learning, Natural Language Processing(NLP), Deep Learning, AWS, Google Cloud(GCP), Rosette Library, HTML, JavaScript.
Description : Rapid Red Flag(RRF) checks quickly helping you to select the most suitable candidate for your business by checking the Risk score for the following checks based on the Natural Language Processing techniques,

1. Litigation Check
2. Adverse Media Check
3. Sanctions Check
4. Background Check

My Role:
- ➢ Work on the analytics part of the modules which includes Taxonomy creation, generating WSD corpus, sentiment analysis, Risk type classification, clustering etc.
- ➢ Understand and implement the requirements with Architecture support.
- ➢ Handling the client requirements.
- ➢ Worked on UI.

Wipro Technologies, Bangalore, India - June 2016 – March 2018
Product Developer for Machine Learning and NLP Applications

Position of Responsibility
- ● Technical Point of contact for all customer interactions
- ● Showcasing demos for prospective clients for Wipro CTO

Project : **DEFT(Deep Extraction Framework for Text)**
Duration : June 2016 - Present
Client : Wipro HOLMES
Technologies : Machine Learning, Natural Language Processing(NLP), Deep Learning(Keras), AWS, Hadoop, Spark
Packages : Spacy, Python, Textacy, GloVe, OpenNLP, Flask
Description : Information extraction from the PDF/word documents. By using the DEFT Framework, extract the following features

- ➢ Named Entities(NER)
- ➢ Entity Relations(SVO's)
- ➢ MultiWord Expression
- ➢ Semantic Extraction
- ➢ Semantic Roles(SRL) extraction
- ➢ Key Terms and their rank Extraction
- ➢ Coreference

Create a Rest End Service for the above features for the consumers. By using OrientDB we can represent the output in graphical view and to use it as search query from the OrientDB.
For the scalability, Same framework implemented in Hadoop in AWS cluster environment by using Spark.

My Role:
- ➢ Work on most of the features listed above
- ➢ Handling the scrum meetings and conduct Retro meetings.
- ➢ Guiding the new Engineers.
- ➢ Support in running DEFT in Hadoop environment

Project : **Custom Named Entity Recognition(NER)**
Duration : June 2017 - Present

Software Skills
- ❑ Machine Learning
- ❑ Natural Language Processing (Spacy, NLTK)
- ❑ Deep learning (Keras)
- ❑ Databases(MySQL, MongoDB)
- ❑ Python
- ❑ C/C++
- ❑ Linux
- ❑ SVN, Git
- ❑ AWS
- ❑ SageMaker

Certifications
- ❑ Machine Learning By Andrew Ng
- ❑ Deep Learning by Andrew Ng
- ❑ Applied Machine Learning Course from AppliedAI

Recognitions & Achievements
- ❑ Got Multiple Pat-on-the-Back Awards from Rockwell Collins
- ❑ Star award from the Xoriant for the outstanding contribution to the Project.
- ❑ Delivered a Technology talk on "Integrity Due Diligence" application at Xoriant's annual Technology **Tech-X** conclave

Client   : PWC, UBS
Technology   : Spacy, Python
Description   : Annotate the given customer data and generate the training data. Generate the custom NER model with the new entity types given by the customer. Identify those entities from the extracted PDF/word documents and replace with the entity types. Generate the cross-validation matrix to get the accuracy of the model.

Project   : **Classification and Work assignment model**
Duration   : June 2016 - November 2016
Client   : BAT(British American Tobacco)
Technology   : Python - SciKit
Description   : BAT is tobacco company. Analyze the data and build a classification model for auto categorization and work assignment through various models and predict the tickets are raised getting classified correctly.

Rockwell Collins, Hyderabad, India - August 2011 – May 2016
Embedded Software Engineer

Project   : **Platform Software**
Duration   : August 2015 - Present
Client   : Boeing 737 Max
Description   : Platform software of Boeing 737 Max is combination of Bootloader, Device Drivers, Core BSP, Flash File System, Data load, HMA(Health Monitor) and TFTP library.
My Role:
  ➢ Analyze, design, develop and unit test using C for TFTP library.
  ➢ Involved in all phases of Software Development life Cycle for this module.
  ➢ Conducting team meetings and monitoring progress of work.
  ➢ Mentoring New Engineers and giving knowledge share sessions.

Project   : **Head Up Display (HUD)**
Duration   : January 2013 – August 2015
Client   : Boeing 737 Max, EEJ
Description   : HUD is any transparent display that presents data without requiring users to look away from their usual viewpoints. The origin of the name stems from a pilot being able to view information with the head positioned "up" and looking forward, instead of angled down looking at lower instruments. Typical aircraft HUDs display airspeed, altitude, a horizon line, turn/bank a slip/skid indicator.
My Role:
  ➢ Analyze, design, develop and unit test using C++.
  ➢ Involved in all phases of Software Development life Cycle for this module.
  ➢ Conducting team meetings and monitoring progress of work.
  ➢ Mentoring New Engineers and giving knowledge share sessions.

Personal Skills
❏ Flexible across technologies and platforms
❏ Coordinating between teams
❏ Swift Execution
❏ Interpersonal Skills
❏ Multitasking

General Info
sex   **:** Male
Nationality **:** Indian
Date of Birth : Feb 26, 1989
Marital Status: Married
Languages Known:
❏ English
❏ Telugu
❏ Hindi

Hobbies
❏ Exploring cuisines, cultures
❏ Travelling
❏ Music
❏ Cooking
❏ TT, Badminton
❏ Being updated on new technology

Project : **Onboard Maintenance Systems (OMS)**
Duration : August 2011 - December 2012
Client : Boeing, EEJ, MRJ, C-Series
Description : Onboard Maintenance System is an application which will monitor the faults and generates the reports upon user request. Mechanic will use these reports as a reference to fix the root cause of the failures when the aircraft is landing on the ground and Pilot can also use these reports incase when he needs to know the detail information about the faults.
My Role:
- ➢ Implemented the code in C and part of the Integration team to test the applications on target environment.
- ➢ Involvement in NCT, VCT, PCT.
- ➢ Familiar with writing software Remote procedure call in distributed process communications (using XML-RPC libraries)

EDUCATION

- ➢ Center for Development of Advance computing(C-DAC) (March 2011 - July 2011)
  COURSE - PG Diploma in Embedded Systems
- ➢ **Narasaraopet Engineering College, Guntur, A.P**   (2006 -2010)
  COURSE - Electronics & Communication Engineering