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Work Experience

Software Engineer, *IVY COMPTECH ENTAIN, Hyderabad, India* Jun 2020 – Present

- Worked on Data Migration Projects of Portugal, Nevada, and Mexico Projects. Established a framework called the 'Fetch Transform Process' Framework (FTP) in Oracle SQL to process the whole migration seamlessly.
- Collaborated with data modelers & analysts to understand the business requirement and design the FTP framework.
- Loaded, Cleaned, Transformed, and migrated a data dump of around 6 million records using Python, SQL Loader**,** Oracle SQL, MS Excel**,** and CSVs for Portugal Migration.
- Received the 'Manager Appraisal Award' for efficiently handling entire migration life cycle.
- Worked on development of white label features using Java, Oracle SQL, Spring MVC and Spring Data JPA and Orchestrated efficient large-scale software deployments for 15+ projects.

Big Data Intern, *Azure Skynet Solutions Pvt Ltd, Gurgaon, India* May 2021 – Jun 2021

- Managed over 10 clients per day, performing Analysis on data of clients using Python, SQL, Java, and Data compression Warehousing through Apache Hive and Hadoop.
- Undergone projects like Uber Data Analysis using Java and Apache Hadoop and Data Compression using Apache Hive to understand the basics of Apache Hive and Hadoop.

Computational Data Analytics, Trainee Intern, *APPQUBE Inc, Vijayawada, India* Apr 2019 – Jun 2019

- Part of a team which works on the analysis and prediction of stock market results of client companies using FastAPi and Keras frameworks and SQL, PostgreSQL for Database operations.
- Implemented Data Mining Exploration to analyze patterns and performed data collection and statistical analysis using Microsoft Excel**,** Python and SQL Server.
- Performed classifications on employee dataset and handled the entire database of the company.

Academic Qualification

Bachelor of Technology, *Koneru Lakshmaiah Education Foundation, Guntur, India* Jun 2016 – May 2020

- CGPA**:** 9.34/10.00**,** Electronics and Communication Engineering.
- Course Work: C and Data Structures, Object-Oriented programming through JAVA, Probability and Stochastic Models, Single Variable Calculus and Matrix Algebra, Multi Variate Calculus, Discrete Mathematics, MATLAB, Fundamentals of IT, Coding Skills in Python, LabVIEW, Signal, and Image Processing etc.

12th Grade, *Sri Chaitanya Jr College, Vijayawada, India* Jun 2014 – Mar 2016

- Percentage: 93.3%, Mathematics Physics and Chemistry.
- Course Work: Permutations and Combinations, Probability, Statistics, Matrices, Differentiation and Integrations, Trigonometry, Calculus, 2D and 3D Geometry, Physics, Chemistry, Sanskrit, English etc.
- Financed the whole tuition fee through Combined Counselling Board (CCB) meritorious Scholarship, Andhra Pradesh

10th Grade, *Sri KVT School, Vijayawada, India* Jun 2013 – Mar 2014

- GPA: 9.5/10.0, Mathematics Social and Science.
- Course Work**:** Statistics, Derivations, Logarithms, Geometry, Algebra, Physics, Chemistry, History, English, Hindi etc.
- Elected and Served as a Class Representative for the academic years 2012-13 and 2013-14.

Research Experience

Publication, *International Journal of Recent Technology and Engineering* Jan 2020

- Leading a team of three, published a paper on various implementation and methodologies of 'Facial Expression Detection' like RGB Model and Comparison Model on IJRTE, Volume-8 Issue-5, January 2020
  Publication: *https://www.ijrte.org/wp-content/uploads/papers/v8i5/E6284018520.pdf*
- For Comparison Model, Developed and trained a Convolution Neural Network (CNN) through Keras in Python, using fer2013 dataset, which contains almost 30000 face centric RGB images, categorized based on the facial expression.
- Emotion Detection Using Color Image processing, face detection module and Open CV, referred as the RGB Model.

Relative Projects

1. **Ventilator Pressure Prediction**
   - Developed a model using LightGBM and Linear Regression to predict the required ventilator pressure based on patient lung's data through ventilator data set from Kaggle.
   - Performed Data Visualization using Matplotlib and Compared the accuracy of LighGBM and Linear Regression.
2. **Lock-Down's Impact on India's Air Quality**
   - Investigation of the impact of lockdown on NO2 concentrations before and during different phases of lockdown
   - Used Sentinel-5P NRTI NO2: Near Real-Time NO2 dataset for analysis, imported from GEE Image-Collection.
   - GeeMap, a Python package for interactive mapping with Google Earth Engine API, is used for the analysis.
3. **Digit Recognizer Project Kaggle**
   - Developed and trained a model through Keras, TensorFlow to recognize handwritten digits
   - Achieved an accuracy of 98.93% and won a Bronze Medal for the submission on Kaggle. *https://www.kaggle.com/ramkiran55devireddy/digit-recognizer-using-keras-and-matplotlib*
4. **Popularity Context XGB and Linear Regression**
   - Predicting the engagement with a pet's profile based on photo for that profile using XGB Boost Model.
   - Dataset from Kaggle containing 6800 pet photos. Implemented Linear and XGB Regression through scikit-learn
5. **Age-and-Gender-Detection**
   - Using Adience Benchmark Gender and Age Classification dataset with nearly 27000 photos and a trained model from Unfiltered faces, developed code to detect age and gender using OpenCV in python.

Technology and Software Skills

Scripting Languages: Python, Java, C, SSH Shell Scripting, IPython, JavaScript, HTML and CSS.

DBMS: MySQL, Oracle SQL, PostgreSQL, SQL Loader, MS SQL Server, IBM Db2, SQLite, Oracle Rdb.

Frameworks: Open CV, Pandas, NumPy, Matplotlib, Scikit-Learn, Keras, TensorFlow, Spring MVC, Spring Data JPA, JDBC.

Tools: MATLAB, SQL Developer, Tableau, Spyder, Jupyter, Apache Hive and Hadoop, GIT, Jenkins, Putty, LabVIEW.

Certifications

IBM Professional Data Scientist Specialization, *IBM, Coursera* — Sep 2021

- Course Work: Python for Data Science, Databases and SQL for DS with Python (with honors), Data Analysis, Visualization, and basics of machine learning using Python etc.
  Credential: *https://www.coursera.org/account/accomplishments/professional-cert/5MGVV4T4RULU*
- Project: APPLIED DATA SCIENCE CAPSTONE PROJECT to predict the landing of Falcon 9, SPACEX Rocket.

Wipro Talent Next Certification, *Wipro Ltd.* — Dec 2019

- Trained on "Java Full Stack development", concentrating mainly on Java, MySQL, J2EE and JDBC.
  Credential: *https://github.com/ramkiran55/Wipro_Talent_Next_Certification.git*
- Project: Ecommerce-Application Using-JSPs-and-Servlets

Certified LabVIEW Associate Developer, *National Instruments (Ni)* — Oct 2018

- Credential: *https://www.credly.com/badges/7c982c83-5353-4bc2-8f93-d80f0b8db5f5/public_url*
- Project: RF Reader Based Attendance System using LabVIEW

Volunteer Experience

NSS Volunteer, *National Service Scheme, India* — Jul 2017 – Mar 2019

Ministry of Youth Affairs and Sports, Govt of India

- Enthusiastically participated in several rural NSS camps, recording, and reporting the needs and problems of rural people to the govt. Been part of many medical and financial awareness camps in villages throughout the state.

Accomplishments and Activities

1. Exhibited 'RF Reader based Attendance System using LabVIEW' project in Electro-thon, a state level project expo conducted by govt of AP and My-Ni-thon, project expo conducted as part of Zrotriya, *dept fest of ECE, KLEF.*
2. Python and Problem-Solving Gold Badge, *Hacker rank*.
3. Helped organize and participated in SPACES (Signal Processing and Communication Engineering Systems), a two-day international conference organized by dept of ECE, *KLEF*.
4. Merit Certificate in two-day National Level championship & workshop on Mobile Control Robotics, *IIT Roorkee.*
5. Participated as an Organizer in firewall team of SAMYAK, a national level technical fest of KLEF.