Prasanna Kumar

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Work Experience

Accenture   *Hyderabad, India*
Data Engineer   *12/2018 - 12/2021*

- Coded as part of the CAAP program for GMI Foods Inc using Google BigQuery service that yielded a 35 percent performance boost in metrics.
- Conceptualized and engineered an end-to-end ETL pipeline in the GCP Platform using best practices that enhanced query times by 55 percent.
- Programmed for United Airlines to migrate legacy Teradata tables to pyspark-based tables that improved customer analytics by 40 percent.
- Performed UAT readiness testing to match table functionality using sampling techniques that coached to implement 100 different signal use cases.

Kogentix   *Hyderabad, India*
Associate Data Analyst   *01/2017 - 12/2018*

- Lead a team of 10 people for a USA-based Sempra energy project as part of manual labeling that acted as a precursor for ML model training.
- Implemented AWS Groundtruth, Rekognition, and scheduled batch jobs through API calls that reduced manual job creation by 100 percent.
- Built object detection, and segmentation ML Model while improving classification metrics like F1 Score, Precision, Accuracy, MSE, MAE, RMSE, etc by 15 percent over the initial model version.

Tata consultancy services   *Chennai, India*
Test Analyst   *09/2015 - 12/2016*

- Designed and executed test scripts and found 10+ critical bugs and 30 non-critical bugs in the entire life-cycle of the e-commerce client site.
- Directed timely defect triage with the development team and production support team on daily basis to hand off valid defects.
- Represented and implemented test plans, test cases, and test processes fueling swift corrective actions, and significant cost savings by 5 percent.

Education

Indiana University Bloomington   *Bloomington, IN, USA*
M.S. in Computer Science   *01/2022 - 07/2022*

Vignan's University   *Guntur, India*
B.Tech in Electronics and communication engineering   *08/2011 - 06/2015*

University Projects

Detecting Undersea Litter Using Deep Learning   *Bloomington, IN, USA*
Indiana University Bloomington   *04/2022 - 05/2022*

- Built and trained ML model that acts as a trash detector using YOLOv5 model based on underwater images and achieved 30 percent overall.
- Devised F-RCNN and the tiny YOLO models to test the performance comparison to decide the best model with ameliorated prediction time by 60 percent in calculation time while storage space is 10MB less for Tiny Yolo.
- Attained an mAP of 93 percent through Tiny YOLO model with the inclusion of techniques like cropping, and local zoom for augmentation.
- **Technical Skills:** Python, Roboflow, Jupyter, Google collab.

Recommendation Engine Using Content Based Filtering   *Bloomington, IN, USA*
Indiana University Bloomington   *04/2022 - 05/2022*

- created content-based recommendation engine using cosine similarity approach that predicts the top 10 recommendations to the customer.
- Articulated comparison of performance between Cosine similarity, KNN, and Linear regression and concluded KNN performs best for usecase.
- **Technical Skills:** cosine similarity, KNN, Linear regression, Data mining techniques.

Skills

Languages	Python, SQL, Spark, Hive, Sqoop
Platforms	Google cloud platform, Amazon web services, Palintir Foundry, Apache Hadoop
Tools	Google BigQuery, Git, Microsoft Office, Notepad++, Jupyter, Visual studio code.