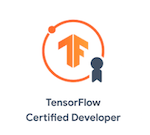
**Biranchi Narayan Nayak**  **** 

LinkedIn : <https://linkedin.com/in/biranchi> Email : [biranchi125@gmail.com](mailto:biranchi125@gmail.com)

Github : <https://github.com/biranchi2018> Mobile: +91 79789 38860

Website : [https://www.biranchi.com/](http://www.biranchi.com/)

SUMMARY

Software Professional with 15 years of experience in the IT industry, with experience in Data Engg, Machine Learning, DevOps, Mobile Apps and Web Technologies.

Google Tensorflow Developer and AWS Certified Machine Learning Engineer.

EDUCATION

Institute of Technical Education & Research (ITER, Utkal University) Bhubaneswar, India

Bachelor of Engineering in Information Technology, 65.5% Sept 2001 - July 2005

TECHNICAL SKILLS

Programming Languages: C/C++, Python, NodeJS

Web Technologies: PHP, HTML5, CSS, JavaScript, jQuery

Mobile Technologies: ObjectiveC, Cordova, Ionic, ReactNative

Machine Learning/Deep Learning: Scikit Learn, Tensorflow, Keras, Numpy, Pandas, Matplotlib,

AutoML, AutoSklearn, AutoKeras, stattools, FBProphet, Jupyter notebooks

Image Processing: OpenCV, PIL, Scikit-Image

Natural Language Processing : NLTK, Spacy, Gensim, Google DialogFlow

Cloud ML Platforms: AzureML, AWS Sagemaker, GCP VertexAI

MLOPs: Kubeflow, MLFlow, AWS Sagemaker Pipelines

Databases: MySQL, AWS Dynamodb, AWS RedShift, MongoDB

Orchestration Tools: Docker, Kubernetes

Data Engg: PySpark, Azure Data Factory, Azure Databricks, Airflow

DevOps: Azure DevOps, CI/CD Pipelines, PyTest, SonarQube, ARMTemplates, IaC

Visualization Azure PowerBI

Project Management: Jira, Azure Boards

EXPERIENCE

* Tiger Analytics Chennai, India

Lead ML Engineer Sep 2022 - Till Now

- Building end-to-end MLOps solutions for business applications on Azure Cloud Platform

- Developing ADF pipelines for data ingestion, data processing, data transformations and visualizing using Power BI

- Hands on experience on Azure Databricks for large scale data processing & data transformation using PySpark

- Managing Databricks clusters with worker nodes with auto scaling feature for handling large volumes of data from Azure Data lake (ADLS Gen2)

- Implementing best practices for DevOps CI/CD pipelines

- Preparing technical documentation and reference architectures

- Involved in day to day activities of planning, task allocation, execution and review of daily activities on Azure Boards

* Capgemini Bangalore, India

Senior ML Engineer Jan 2021 - Aug 2022

- Developing ML and AI workflows for end users with GUI driven pipelines, using automation in ML operations such as Auto ML, Hyperparameter tuning etc.

- Hands on experience on AutoML libraries like TPOT, AutoSklearn, AutoKeras, Sagemaker AutoPilot

- Worked on Kubeflow MLOps for end to end model training & deployment on Azure ML , AWS Sagemaker and Google VertexAI platforms.

- Used MLFlow for Experiments & Trials tracking, ML Model versioning and model endpoint deployment on cloud platforms.

- Hands on experience in Web Scraping using Python BeautifulSoup, Scrapy, Selenium WebDriver

- Worked on Synthetic Data Generation using SDV (Synthetic Data Vault) for relational and non-relational tabular data.

- Worked on Model Explainability using SHAPLEY and AWS Clarify on Sagemaker

- Experience with Sagemaker model monitoring and model interpretability.

- Architecting, Planning and Development of Python Flask Microservices for Machine Learning operations with Integration with MongoDB and deployment on Kubernetes clusters.

- POC on time series analysis of retail data using stattools and FBProphet

* Vettons Sdn. Bhd. Kuala Lumpur, Malaysia

Machine Learning Engineer Nov 2018 - Nov 2020

- Developed Product Recommendation Engine using AWS Sagemaker, AWS Lambda

- Developed Chatbot using NLTK, Spacy & Google’s Dialogflow framework with integration with Slack, Telegram channels.

- Developed a custom Image recognition model using transfer learning for Vettons products.

- Experience in working on AWS Lambda, Sagemaker, AWS Rekognition, Dynamodb, SNS, SQS, Redshift, AWS Kinesis, ElasticBeanstalk

- Handled migration of 10GB of data from AWS Dynamodb to AWS Redshift using Kinesis Firehose and Serverless Lambda

- Developed Face Detection, Face Recognition POC applications on RaspberryPi with Twilio API integration for sending real time sms alerts.

* Xchanging Malaysia Sdn. Bhd. Kuala Lumpur, Malaysia

Technical Lead Mar 2012 - Oct 2018

- Worked as Lead Mobile Apps Developer for iOS Native and Hybrid Apps using ObjectiveC, Ionic, Cordova, React Native frameworks

- Developed KLIA Ekspres Mobile Ticketing App for ERL Sdn. Bhd, Kuala Lumpur, Malaysia, used by 1 million commuters.

- Developed the iHajj iOS & iPad App for Makkah Development Authority, Ministry of Tourism, Saudi Arabia

* Ness Technologies Bangalore, India

Senior Software Engg. Dec 2010 - Mar 2012

- Worked as Senior iOS mobile application developer.

- Developed the SIA Mobile App for SIA (Singapore International Airlines), Singapore

* PurpleTalk Inc. Hyderabad, India Senior Software Engg. Sept 2008 - Dec 2010

- Worked as iOS mobile application developer.

- Worked on developing end to end iOS app and publishing on the AppStore

* Ficussoft India Ltd. Bhubaneswar, India

Software Engineer Mar 2007 - June 2008

- Worked as web application developer using PHP, MySQL & javascript frameworks like jQuery for developing frontend web applications

- Hands on experience on configuring and enabling domain registration and website setup

PROJECTS

1) IDEA Accelerator Framework

UI driven micro service based platform developed for Feature Engineering, model building, training and deployment on different

Cloud platforms like Azure, AWS and GCP using cloud native Machine Learning APIs. The ML operations are driven using the Flask

micro services running on Kubernetes clusters.

2) ML Pipeline on Kubeflow on Azure, AWS, GCP Cloud Platforms

Developed ML Pipeline for data ingestion, ML model training and deployment using Kubeflow on AzureML, AWS Sagemaker and GCP

Vertex AI platforms.

3) Model Training and Deployment using AutoML on AWS Sagemaker

Used AutoSklearn and AutoKeras for AutoML model training on custom dataset and deploying on AWS Sagemaker

4) ML Experiment tracking, Model versioning and deployment using MLFlow

Used MLFlow for ML Experiment and Trials tracking, model versioning and deployment on AWS Sagemaker and GCP Vertex AI

platforms

5) Custom Product Image Detection

Fine tuned Resnet50 model on custom images for image detection and deployed as Flask web service.

6) Chatbot using NLTK, Google DialogFlow

Developed chatbot for vettons product search using NLTK, Spacy and Google Dialogflow framework running on AWS serverless

lambda.

7) Data Migration from AWS Dynamodb to AWS Redshift

Created serverless lambda python scripts for migrating real time streaming data on AWS Dynamodb to AWS Redshift using AWS

Kinesis Firehose for data analytics and reporting.

CERTIFICATIONS

* AWS Certified Machine Learning Specialty (2021)
* Google Certified TensorFlow Developer (1st in Southeast Asia)

<https://developers.google.com/certification/directory/tensorflow>

* Machine Learning Certification from NPTEL (IIT Madras 2019, Top 5% Topper)

<https://nptel.ac.in/noc/courses/noc19/SEM2/noc19-cs81/>

* Machine Learning Certification from Coursera (Stanford University)
* Deep Learning Certification from Coursera (deeplearning.ai)
* Have completed 100+ certifications on Machine Learning/Data Science from various MOOCS like Coursera, Udemy, DataCamp, NPTEL etc.

AWARDS & ACHIEVEMENTS

* Received High Flyer Award at Capgemini, for 2021-2022
* Xchanging Malaysia Valuable Employee Award for 2017-2018
* Certificate of Recognition by CSC Middle East for MDA project, - 2016
* Received Best Employee Award at Ness Technologies, 2011
* Have more than 15K reputations with top 3% Stackoverflow rating
  + (<https://stackoverflow.com/users/97651/biranchi>)
* Developer and Maintainer of Odia Python library (<https://pypi.org/project/odia/>)