Vikash Kumar

Bachelor of Technology – EEE
Department of Electronics and Electrical
Engineering
Indian Institute of Technology Guwahati

+91-8011229685
vikash0837@gmail.com
contact.vikash837@gmail.com

Degree	Institute	CGPA/%	Years
Bachelor of Technology	Indian Institute of Technology Guwahati	7.44	*2011-2015*
Senior Secondary School Edu.(XII)	Patna Muslim High School	74.2	*2010*
Secondary School Education(X)	Jagdev Memorial High School	82.2	*2008*

EXPERIENCES

SENIOR Software Engineer at WIPRO TECHNOLOGIES

- At Wipro I mainly worked on projects related to Big Data Analytics and Machine learning.
- Currently working on Projects related to NLP, Chatbot/Visualbot, Deep Learning based Model management, custom Training deep learning networks with transfer learning etc.
- "Apollo" was my 1st project which was a machine learning based fraud detection platform development.
- Apart from Machine learning techniques, I have worked on various tools and technologies including Cloudera Hadoop framework, HDFS, HIVE, MYSQL ,AWS, GCP,AZURE JASPER, UNIX etc.

PROJECTS

Visual Bot for exploring and analyzing historical and current records
DPE AI Wipro

- Trained model using Microsoft cognitive service LUIS for intent and entity extraction from utterances.
- Created query based on extracted intent and entity, fetched information and sent the response back
- Exposed the complete application as micro-service

Banking transaction categorization using supervised ML algorithms
DPE AI Wipro

- Build ML application which was able to categorize multiple transaction data into different transaction type like medicine, grocery and so on
- Used ensemble approach to categorize the transaction data
- Application was exposed as rest service and models were deployed in AWS cloud service which ensures on demand scalability and availability

Intelligent Edge Computing Systems using Computer Vision
DPE AI Wipro

- Edge computing system that detects person and gender in video streams, by using Deep Neural Network(DNN)
- Solution built using Dlib, TensorFlow and Caffe framework-based object detection models and employs ensemble approach for improved accuracy
- Clipper, a low-latency prediction serving system with a modular architecture to simplify model deployment across deep learning frameworks, platforms and applications, was used to deploy the solution.

Enhance IT support experience using NLP
DPE AI Wipro

- Automatically detect anomalies and patterns in incident data (log files) to provide prescriptive and predictive insights.
- Built machine learning models to detect anomalies using Azure ML as well as genism based models for automated incident classification

Deep learning based scanned PAN card data extraction

DPE AI Wipro

- Used Mask R-CNN algorithm and transfer learning to train a model on GPU machine.
- It was extended version of object detection trained on pixel level
- Extracted region of interest and processed data using OCR and post processing mechanisms.
- This solution was extended for other scanned docs like Passport and Aadhar card

Machine learning based Fraud Detection Platform Building

Apollo platform Wipro

- It was a Machine learning based big data project which provides fraud detection solution for clients in various fraud prone domain such as travel expense claim, Insurance claim etc.
- We were using Cloudera Hadoop Framework and AWS infrastructure to store and process the data.
- I could learn and applied various technologies including Hadoop, AWS, Hive, MYSQL and Jasper.

Online Signature Verification

Guide: Dr. M.K Bhuyan, Assistant Professor ,IIT Guwahati

- I used DTW (Dynamic time Warping) algorithm to implement the online signature verification.
- This method is computation intensive and achieved accuracy was 75-78%.

TECHNICAL PROFICIENCY

- Programming Skills: C , C++ , Python
- Operating System: Windows, RHEL, Ubuntu
- Technology :   Hadoop, Hive, MYSQL, Jasper, Machine learning, Unix, OpenCV,

    Scikit-learn, AWS, AZURE, GCP, NLP, NUPIC, NLTK,GENSIM

POSITIONS OF RESPONSIBILITY

- Requirements gathering from client, development of various use cases and on time delivery
- Leading the team and making the environment conducive
- Head , Branding and Publicity Team of IEEE Student Branch
- Member of Branding and Publicity Team ,Techinche-12

ACADMIC ACHIEVEMENTS

- Received pre-placement offer from Wipro technologies based on my summer internship performance
- Won 1st prize in a debate conducted by Indian Bank on the topic "**Role of Banks in the economic development of villages**".
- Selected for **MCM** (Merit cum Means) Scholarships for the year 2012 and 2013.
- School Topper in 10th Board Examination.

EXTRA CURRICULARS

- Participated in KIRTI (inter hostel technical competition) and positioned 4th among hostels in water rocket competition.
- Actively Participated in Manthan (inter Hostel cultural competition).
- Member of the National Sports Organization (NSO) Swimming.

(References available on request)