

# Ashok S. V. Dibbada

TRAINEE DECISION SCIENTIST · DATA ANALYST · CODING ENTHUSIAST

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## Job Experience

### Mu Sigma Business Solutions Pvt. Ltd.

Bengaluru, India

TRAINEE DECISION SCIENTIST

Sept. 2015 - Present

- Worked in teams across multiple time zones to design and deliver long term solutions for complex business problems
- Has experience in fields of , Regression & Cluster Analysis, Video Analytics, Image Processing and web-app development

## Education

### Indian Institute of Technology- Guwahati

Assam, India

B.TECH. IN ELECTRONICS AND COMMUNICATION ENGINEERING

Jul. 2011 - Apr. 2015

- Pursued ECE major and completed course work in Information theory, Communication Networks and Signal Processing areas

### Bhashyam Public School & Junior College

Andhra Pradesh, India

CLASS X, INTERMEDIATE (CLASS XI & XII)

June 2008 - May 2011

- Studied Maths, Physics & chemistry, scored 95.8% in intermediate (class XI & XII) and secured 91.3% in class X

## Skills

- **Languages:** Python, C++, R, SQL, JAVA(J2EE), MATLAB
- **Statistical Algorithms:** Linear Regression, Logistic Regression, AP & K-Means Clustering, LSA
- **Image & Video Analytics:** Neural Networks (CUDA), Contour detection & Analysis, OCR, MHT tracker, Image pre processing & enhancing techniques
- **Web development:** Spring MVC, REST API, Angular JS, D3.js, HTML, Bootstrap
- **Tools & Databases:** Excel, MS SQL Server

## Projects

### Visualization Portal

Mu Sigma

DEVELOPER

Nov. 2016 - Mar. 2017

- Built a web application for US based home improvement retailer to visualize and monitor price sensitivity model results and simulate price sensitivity scores
- Designed middle layer architecture using JAVA Springs and front end with angular.JS
- Created graphical components in d3.js for visualization purposes

### Video Analytics

Mu Sigma

DATA ANALYST

June 2016 - Sept. 2016

- Worked with US based home improvement retailer in detecting and tracking of customers from in-store CCTV footage
- Developed an ensemble **neural network model** for human face detection and MHT for tracking across video frames
- Developed a **click tool** in python for tagging customer wait and check out time for model validation

### Parts Harmonization

Mu Sigma

DATA ANALYST

March 2016 - May 2016

- Enabled decisions for a USA based technology conglomerate in procurement optimization. Identified duplicates at part level on the basis of key part features and descriptions for a given part
- Developed a **desktop application** to extract the important part features from images containing part related information. Identified the correlation between P.O. Cost and various part features
- Created an excel based reporting framework highlighting the optimised procurement options of specified features for a given part

## Academic Work

## Software and Hardware implementation of Power Line Communication

IIT-Guwahati

BACHELOR THESIS PROJECT - UNDER DR.KALPANA DHAKA AND DR.AMITABH CHATTERJEE OF EEE DEPT.

July 2014 - Apr. 2015

- Worked on implementing power line communication as an effective tool box for communication purposes
- For software interface, the idea is to establish a power line channel scenario and transmit the data bytes through OFDM transmission model. The software implementation has been done in MATLAB
- Implemented the hardware interface by establishing communication between two computers connected with arduino micro controllers (transmitter and receiver) through power line channel using PLC modems

## Toolbox for drawing leaf outlines

IIT-Guwahati

SUMMER INTERNSHIP - UNDER GUIDANCE OF DR.P.K.BORA,EEE DEPT.

May 2014 - July 2014

- Did literature review about shape descriptors and edge detection of images
- Developed an application in MATLAB which enables user to manually select points on the image to form an outline using spline interpolation
- Performed edge detection on leaf images using various edge detectors

## Implementation of Re-configurable printed antenna

IIT-Guwahati

COURSE WORK PROJECT - UNDER GUIDANCE OF DR.K.R.SINGH AND DR.R.K.SONKAR OF EEE DEPT.

Jan. 2014 - Apr. 2014

- Implemented tunable micro strip antenna as per the input so that it could be used at multiple input frequencies
- Implemented circuit design in CircuitCam and simulated the circuit using HFSS-9
- Implemented hardware interface by printing an antenna on FR4 epoxy with SMA connectors and used varactors to make the antenna tunable to input frequencies

## Digital Speedometer

IIT-Guwahati

COURSE WORK PROJECT - UNDER GUIDANCE OF DR.AMITH SETHI,EEE DEPT.

Sep. 2012- Nov. 2012

- Implemented a digital speedometer using 8085 microprocessor and combinatorial circuits to calculate wheel speed

## Awards & Achievements

### INDUSTRY

- |      |  |                 |
|------|--|-----------------|
| 2016 | <b>Impact Award</b> , For simplifying the video tagging process and reduced the time taken significantly | <i>Mu Sigma</i> |
| 2016 | <b>Spot Award</b> , In recognition of improvement shown within few weeks into my first project           | <i>Mu Sigma</i> |

### ACADEMIC

- |           |  |                     |
|-----------|--|---------------------|
| 2011-2015 | <b>MCM Scholarship</b> , Full fee waiver throughout B.Tech on merit cum means basis                      | <i>IIT-Guwahati</i> |
| 2009-2011 | <b>BTS Scholarship</b> , Full fee waiver for class XI,XII based on performance in state wide talent test | <i>Bhashyam</i>     |
| 2011      | <b>Top 250</b> , Listed in top 250 of NSEP & NSEC and selected for InPhO and InChO                       | <i>Bhashyam</i>     |
| 2011      | <b>Top 1%</b> , Stood among top 1% in IITJEE-2011,AIEEE-2011   | <i>Bhashyam</i>     |

## Relevant Course Work

- |   |   |
|---|---|
| <ul style="list-style-type: none"><li>• Information Theory &amp; Coding</li><li>• Error Control Codes</li><li>• Communication Networks</li><li>• Probability &amp; Random Processes</li><li>• Digital Signal Processing</li></ul> | <ul style="list-style-type: none"><li>• Algorithms &amp; Data Structures</li><li>• Parallel Computing</li><li>• Embedded Systems</li><li>• Microwave Engineering &amp; Lab</li><li>• Digital Communications &amp; Lab</li></ul> |
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## Extracurricular Activity

### Technothon

IIT-Guwahati

CITY REPRESENTATIVE

May 2012 - July 2012

- Successfully conducted Technothon in my home town and was responsible for a participation of 500 teams

### National Service Scheme

IIT-Guwahati

MEMBER

Sep. 2011 - Apr. 2013

- Visited nearby villages to spread awareness and participated in several cloth collection and cleanliness drives