Aman Dalmia
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Interests:
Recommender Systems, Information Retrieval and Natural Language Processing.

Employment:

· Data Science Engineer *(2018, present)*, Siemens Technology, *Bangalore*, INDIA

  – Development of a closed domain search engine.

· Senior Systems Engineer*(2018)*, Infosys Limited, *Bangalore*, INDIA

  – Developed a recommendation engine in which the main objective was to resolve the open tickets faster by providing the engineer top five closed relevant/similar tickets having the datasets of size in gigabytes.

  – Worked on text identification for apparel tags and then performing NER on the text data using NLP.

· Systems Engineer*(2015-2017)*, Infosys Limited, *Bangalore*, INDIA

  – A project on text recognition of a government id card which will help the client's customers to open there accounts with minimal intervention of a user.

  – Worked on an identification and counting the number of identical objects in a given aerial image using neural nets.

  – Developed a recommendation model which involved recommending, the best place to eat, shop and have entertainment according to the user's location. Implemented user based recommendation engine to give top three recommendations for a given category.

  – Worked on an optical character recognition using the k-Nearest Neighbor algorithm, OpenCV, and Google Tesseract library. The objective was to identify different automotive parts.

Publications :

  – <u>Aman Dalmia</u>, Shibashish Pal, Habib Masum, Subhasis Bhaumik, **Development of Wireless Foot Pressure Sensor for Bio-Medical Applications**, in proceedings of *2nd International Conference on Advances in Mechanical Engineering and its Interdisciplinary Areas (ICAMEI 15)*, pp. 355-360, Jan. 2015,WB, India.

  – <u>Aman Dalmia</u>, Nitish Kumar, M.K.Pandit, A.K.Jana, **A Novel Approach for Non-Linear and Linear Data Prediction and Abstraction using Artificial Neural Network**, *International Journal of Engineering Innovations and Research*, vol. 3, no pp.814-819, Nov. 2014.

Education:

B.Tech in Electronics and Communication Engineering*(2011-2015)* Haldia Institute of Technology, Haldia Affiliation: West Bengal University of Technology	**8.39/10**
Higher Secondary Examination *(2009-2011)* Julien Day School, Kolkata, West Bengal Affiliation: Indian School Certificate Examinations	**76 %**
Secondary Examination *(2008-2009)* Julien Day School, Kolkata, West Bengal Affiliation: Indian School Certificate Examinations	**83.4 %**

Technical Skills:

Programming Skills	Python, Java
Framework Libraries	TensorFlow, Keras, scikit-learn, Pandas, NumPy, Matplotlib, RASA.
Database	MySQL, MongoDB

Academic Projects:

Automatic Friction Test Instrument *(Jan'15-May'15)* *Advisor-Dr. Bikash Bepari, Head of Production Engineering, HIT, Haldia.*	Design and development of a cost-effective working prototype that can calculate the coefficient automatically. Set up the microcontroller which will take data from the potentiometer (evaluation of angle depend upon the position of the shaft of the potentiometer) and the sensors, compute the data and display the results. Finally the working prototype is ready for lab experiments

Data Prediction using ANNs
(August'14-May'15)
Advisor-Dr. M.K.Pandit, Professor, Electronics and Communication Engineering, HIT Haldia.

A working application for recruitment consultancy using ANNs.
Trained the network using backpropagation algorithm to predict the performance of the students based on the past resources.
A new application to predict the student performance Collection of past data and train the network using BPN Algorithm such that it predicts the future outcome based on its past experiences.
The prediction of student performance was found satisfactory results.

Wireless foot Pressure Sensor
(June'14-August'14)
Advisor-Dr. Subhasis Bhaumik, Coordinator School of Mechatronics and Robotics, IIEST, Shibpur.

An artificial ankle for impaired leg people and for gait analysis.
Design and development of a pressure sensor attached in the shoe sole, the data is amplified, sent from one controller to another controller where the motor is connected to other ends.
Finally the prototype showed satisfactory results in LabVIEW.

Awards and Achievements:

- Received an award of Most Valuable Player in the recognition of Exceptional Performance, Infosys Ltd, Bangalore*(2017)*.
- Secured 4th position in IEEE Cloud Computing for Emerging Markets PCW, Bangalore*(April, 2017)*.
- Selected in Grassroots Engineering under MIT Media Lab designinnovation 2014, Mumbai*(January, 2014)*.
- Head of the Program Committee at IEEE HIT Student Chapter, Haldia*(2013-14)*.
- Received studentship from Haldia Institute of Technology, Haldia during my undergraduation*(2011)*.
- Secured 36th state rank in International Olympiad of Mathematics *(2009)*.
- Received Certificates of Merit for Mathematics, Computer Science and Environmental Education in class IX, X and XI.