MANDEEP KUMAR

ACADEMIC PROFILE

Degree/Certificate	Institution	Percentage/CGPA	Year
B-Tech	Mining Engineering IIT (BHU), Varanasi	8.63	2020

Sem I	Sem II	Sem III	Sem IV	Sem V	Sem VI	Sem VII	Sem VIII
7.72	8.68	9.49	8.22	8.41	9.14	-	-

CBSE (XII)	Delhi Public School, Bokaro	90.40	2016
CBSE (X)	Sree Ayyappa Public School, Boakro	95.00	2014

SKILLS

Strength and Skills

- Intermediate Expertise in **C-Programming, C++, Java, MY-SQL** and **Python.**
- Expertise in **MS Office, Excel & Internet applications**.
- Working Experience in **Android Studio**.
- Website Developing skills using **HTML, CSS, JavaScript** and **XML**.

INTERNSHIP/TRAINING

Training- Bharat Coking coal Limited, Dhanbad May'19 - July'19

Managed the manpower over various operations in Underground mines and ensured proper regulation and utilization of resources with proper safety measures.

Research Intern- Central Institute of Mining and Fuel Research Dec'17

The intern project was based on the study of variation of pillar strength with various heights of excavation in the **'Strata Mechanics'** division of institute.

Research Intern- National Institute of Rock Mechanics May'18 - July'18

The intern project was based on analysis of stresses in Bord and Pillar workings using Numerical Modelling - modelling was done using **Rhino Modelling** and stress analysis was done by **FLAC 3D**.

PROJECTS

Deep Network for scene text detection Dec'18 - Mar'19

- Implementation of the **YOLO algorithm** in scene text for localizing text in natural images.
- YOLO architecture for detecting multiple classes was modified to detect a single class(i.e. text).
- Using YOLO algorithm, Scene text localisation is reframed as a single regression problem to predict bounding boxes directly from the image pixels.
- Exposure: Image Processing, Convolution Neural Network, Various object detection algorithms

Spam detection in twitter network May'18 - July'18

- Devised an Algorithm for extracting spammers from a tree structured network of users, given that the parent root is a content-polluter/Spammer.
- A model is developed to accurately classify spammers from other classes of users in the output, the best accuracy have been obtained by SVM.
- Exposure: Graphs, Machine Learning

Insurance Claim Fraud Detection using Machine Learning May'17 Jul'17

- Multivariate Gaussian Distribution is applied to detect fraudulent cases of an insurance claim in a highly imbalanced dataset.
- Feature engineering is done for the better performance of the anomaly detection algorithm.
- Exposure: Data preprocessing, Regression and Classification models

POSITION OF RESPONSIBILITY

CO coordinator - Hovercraft Technex'18

An event conducted by aero-modelling club which deals in conducting hovercraft making and learning its function and how to maximise its production

Public Relations Head- Hult Prize April'18 - November'18

The **Hult Prize** is the world's biggest engine for the launch of good profit startups emerging from university with over 2500 staff and volunteers around the world. President Bill Clinton is unwavering in his support of the **Hult Prize** and continues to **award** the **Prize** and announce the challenge each year. The United Nations hosts the Global Finals of the **Hult Prize** Flagship Challenge.

Cordinator - Startup Fair'18 December'18- March '19

Startup Fair is an entrepreneurial extravaganza conducted under the umbrella of **Technex'18** - the annual techno-management fest of IIT(BHU) and **E-cell IIT(BHU)** to give the nation's best startups a platform to **learn and network** with some of the biggest **investors** and **venture capitalists**.

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