AJEYA KRISHNA

ACADEMIC PROFILE

Degree/Certificate	Institution	Percentage/CGPA	Year
IDD	Physics IIT (BHU), Varanasi	8.69	2022
BIEAP (XII)	Amaravathi Institute	97.20	2017
BSEAP (X)	Sri Chaitanya School	93.10	2015

SKILLS

- **Languages** : Python, SQL, C++
- **Tools** : Jupyter Notebook, Google Collab, Tableau, MS Office
- **Coursework** : Business Statistics and Analysis, Deep Learning, Machine Learning
- **Areas of Interests**: Data Analytics, Machine Learning, Statistics, Health Care Analytics

INTERNSHIP/TRAINING

Deep Learning Internship | IIT BHU   May '21 - July '21

Built an uncertainty-aware model that predicts the covid-19 and reveals the infection area.

- Employed **Deep Learning Technique** to extract features of the X-Ray images and CT scans. Adapted models such as Random Forest and Neural Network for classifying covid cases.
- Used data set of more than **10,000 pictures** and obtained **95%** accuracy with X-ray images and **94%** with CT scans. The Covid region in the lungs was segmented with a **75%** accuracy rate.
- The model has a greater recall and precision than the current **RT-PCR** test in predicting covid cases.

Machine Learning Internship | Datalogy   May '20 - July '20

Development of ML models for customer focusing and insights generation

- Assisted the firm with **Customer Targeting** and Marketing using the insights extracted from the data.
- Performed an in-depth exploratory data analysis in Python using the **NumPy**, **Pandas** and **Seaborn** packages to discover the major characteristics impacting the product.
- Deployed several ML models like **Linear regression**, **CART** to predict the sustainability of the product. The company has experienced a **25%** increase in customers using the insights.

PROJECTS

Data Analysis of Housing Affordability Data System of United States

- **Merged and cleaned** the data of the American Housing Survey for the years 2007, 2009, 2011, 2013.
- Performed **'Hypothesis Testing'** to compare the market values of vacant and occupied houses.
- Built a **Predictive Model** for the market value of housing units using **Linear Regression** in MS-Excel. Performed **Holdout Analysis** to measure the accuracy of the model developed.

Predicting the age group of Trell users

- Predicted the age group of Trell users using the data which had **5,00,000** entries and several features.
- Applied techniques like Data Preprocessing and Feature Engineering to achieve **80%** accuracy.
- This approach could be used to develop **age-specific advertising** on social media networks.

POSITION OF RESPONSIBILITY

Core Team Member, Technex IIT BHU   Jan '21 - Apr '21

- Worked with the core team in the successful execution of **first online edition of Technex' 21**.
- Spearheaded a three-tier team of **100+** people to conceptualize, plan and execute events.
- Witnessed **1000+** participants from various Technical and Management Institutes.

Head of Workshops, Technex IIT BHU   Jan '20 - Apr '20

- Coordinated the end-to-end Publicity and Management of the workshops which witnessed a footfall of **1200+** participants from various technical and management institutes.
- Approached various companies and industry tech leaders for the execution of workshops.
- Led a team of **50+** members to coordinate the Publicity, Logistics and Operations of the workshops.

HONOURS AND ACHIEVEMENTS

- Achieved **Rank 80** out of 2000 in Cascade Cup, a data science hackathon organized by IIT Guwahati.
- Secured **Rank 3** in Analyticity, the Business Analytics event of Technex, IIT BHU.

EXTRA-CURRICULAR ACTIVITIES

- Participated in **48 hours** Data Competitions EXL EQ' 21, ZS Campus Beats and Amazon ML Challenge.
- Participated in **Case Study Competitions** organized by IIT Madras, IIT Delhi and IIM Bangalore.
- Participated in **Shuttler's Cup** 2019 and Inter hostel **Badminton Tournament** 2019.

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