



KISHAN PANDEY

kishanpandey.official@gmail.com | linkedin.com/in/kishanpandey2912/

B.Tech: CIVIL ENGINEERING

M.Tech: ARTIFICIAL INTELLIGENCE MACHINE LEARNING



EDUCATION

Year	Degree/Exam	Institute
2024	Dual Degree (4+1)Year course	Indian Institute of Technology Kharagpur
2018	Senior Secondary Certificate	Central Board of Sec Education - Jabalpur
2016	Higher Secondary Certificate	Central Board of Sec Education - Jabalpur

INTERNSHIPS

Dewinter Optical Inc.	Machine Learning	[May'22-July'22]
<i>Monetized the Commercial Hardware product for a German Microscope company assiting in the model training part of software integration</i> <ul style="list-style-type: none">Used transfer learning, leveraging YOLOv5 model for 5-class white blood cell detection and classification with mean average precision of 0.78Achieved 2 fold improvement in men average precision by annotation and augmentation of live blood sample from 2000 images dataset to 6000 imagesAchieved increase in mean average precision in YOLOv5s model training on AWS EC2 instance, reducing computation time by 40% for enhanced efficiency		
Consultant, Slalom	Algorithms R&D	[Dec'22-Jan'22]
<i>Grew an AI-Based tech startup project from pre-seed funding stage; working on backend in collaboration with a team of consultants</i> <ul style="list-style-type: none">Reduced 3+ hours of manual compute time per algorithm to 16 secs by automating the hyper-parameter tuning process through Optuna frameworkBoosted performance by 28% enabling automatic feature generation using FeatureTools framework; created a new stream of multivariate algorithmsIncreased prediction efficiency of customer-facing portal by 125% by implementing winner of M4 competition Exponential Smoothing RNN &N-BEATS		

Cars24	Product Management	[May'23-July'23]
<i>Reduced checkout funnel dropoff rate from 21% to 10% by revamping the Order Summary page of Cars24 Australia via A/B testing</i> <ul style="list-style-type: none">Discovered the pain points of 300+ users by analyzing product pipeline Hotjar dropoff recordings, User call recordings, direct calling 50+ dropoff usersAchieved 15% reduction in cart abandonment rates and a 10% increase in the overall conversion rate by Identifying 5 checkout funnel enhancementsEnsured successful A/B testing by spearheading the process of Amplitude and Google Analytics event mapping along with 10+ Software feature testing		

PROJECTS

Pavement Distress Severity Estimation	M. Tech Project-1	[July'23-Nov'23]
<i>Detection, Quantification and Severity Estimation of the distresses in Pavements of Indian roads using Deep learning models and frameworks</i> <ul style="list-style-type: none">Applied YoloV5 and U-Net, employing transfer learning, to segment an extensive dataset of 8000+ images and extended the approach to video dataCollaborated with stealth startup and hosted the model in Engineered interactive Streamlit app to visualize model results, enhancing data analysis		
Chemical Named Entity Recognition	Design-Lab IIT Kharagpur	[May'23]
<i>Executed a Natural Language Processing project, identifying chemical named entities within dataset, showcasing analytical competence</i> <ul style="list-style-type: none">Successfully applied Named Entity Recognition(NER) technique to classify chemical substances and reaction conditions from text descriptions of dataLeveraged Spacy to analyze specific chemical text entities and Brat Rapid Annotation Tool to manually annotate text data to achieve an f1 - score of 0.61		

COMPETITION/CONFERENCE

Warehouse Demand Forecasting	Inter Hall Data Analytics Nihilent Ltd.	[Mar'22]
<i>Inventory requirement forecasting for a fan manufacturing company for a month in advance to reduce low fill rate problems faced in warehouse</i> <ul style="list-style-type: none">Reduced the memory requirements by clustering over 1000+ time series data with dynamic time warping to represent them using only three time seriesUtilized Auto-ARIMA, FB Prophet, XG-BOOST models to achieve a 0.34 mean average precision error, showcasing strong predictive analytics skills		

POSITIONS OF RESPONSIBILITY

MMM Hall of Residence, IIT Kharagpur	Hall President	[Aug'22-May'23]
<ul style="list-style-type: none">Elected by a student body of 1100 students leading a team of 10 Gen.Sect. and 40 Sect. orchestrating 50+ events across 9 portfolios in 2 semestersOversaw INR 0.58 Cr student hall fund, driving initiatives in areas like Hall Maintenance, Student Welfare, Mess, Alumni, So-Cult, Tech, Sports, GardeningLed resolution of critical concerns within the Institute's general body, encompassing matters such as mess facilities, illumination, General ChampionshipAchieved first podium(Silver) with a team of over 100 hall boarders in the Annual Illumination competition, surpassing 18 participating halls of residence		
Technology Comedy Club, TSG IIT Kharagpur	Governor	[Jul'22-May'22]
<ul style="list-style-type: none">Successfully registered the club under Technology Students' Gymkhana within 2 years of initiation with highest club strength of 70 student membersExecuted 10+ online comedy events including "Wonder Women of Comedy", hosting 5 female comedians, promoting the club among female students		

TSG, IIT Kharagpur	Officiating Secretary Student's Welfare	[Jan'21-July'21]
<ul style="list-style-type: none">Resolved student's concerns during COVID in academic and mental well being domain with a co-secretary assiting two General Secretaries WelfareIdeated and implemented 8 online seminars like Zumba & mental well-being hosting psychologists to help students cope with mental stress of exams		

COURSEWORK INFORMATION

IIT Kharagpur : Programming & Data structures | Machine Learning F & A | Probability and statistics | Deep Learning F & A
Online courses(Board Infinity &Udemy) : Machine learning | Python for ML | Statistics | Finance, Accounting Modelling and Valuation

SKILLS AND EXPERTISE

Softwares : MS Office , Tableau, Jupyter, Google Analytics, Matplotlib, Scikit Learn **Cloud** : Amazon Web services **Languages** : Python, C,C++, SQL

EXTRA CURRICULAR ACTIVITIES

•Social Impact: Conducted 2 donation rounds for orphan girls donating essentials such as ration, bedsheet, pillow, mattress, stationary, new Laptop
•NCC: National Cadet Corps B certificate holder; Completed 10 days training camp and won 3 medals for athletic excellence and hosted a cultural program
•Cultural: Played the lead role in the first submission of MMM Hall Inter Hall short filmmaking competition leading a team of 10 student filmmakers