Ashish Singh

As a multilingual analytics professional, I am dedicated to empowering organizations with data-driven insights that drive informed decision-making. With a keen understanding of business requirements and a shrewd analytical mind, I am able to provide valuable insights that help businesses achieve their goals and stay ahead of the competition.

Kanpur, Uttar Pradesh
singh.ashish.konvict@gmail.com
+91 96952 99977

As a skilled data analyst with a passion for problem-solving and a dedication to organizational growth, I am committed to pursuing opportunities that allow me to leverage my expertise and enhance my skill set. I am particularly interested in working for a company with a strong cultural presence, where I can gain hands-on experience and contribute to meaningful projects that drive business success.
Throughout my career, I have honed my ability to identify patterns, interpret data, and generate insightful reports that inform strategic decision-making. I am adept at preparing and operating databases and other system structures, and have a proven track record of streamlining processes and aligning plans with operational needs.
With expertise in quantitative analysis and a talent for solving complex problems, I am dedicated to delivering high-quality results that drive company growth and improvements. I am committed to adapting to the changing needs of the industry and leveraging new technologies and methodologies to achieve personal and organizational goals.

Altogether, My expertise in a range of analytics tools and techniques, combined with my fluency in multiple languages, makes me a valuable asset to any organization seeking to leverage the power of data to drive growth and innovation.

Willing to relocate: Anywhere

Personal Details

Date of Birth: 1995-01-07
Eligible to work in: India
Highest Career Level: 2-5 years experience
Industry: Advertising, PR, MR, Event Management, Analytics, Business Operations, KPO, Research, Analytics, Management, Marketing, Project Management, Scientific Research & Development, Software Development, Strategy, Management Consulting Firms, Technology
Total years of experience: 6

Work Experience

Data Science, ML, and Business Analytics Trainer

Freelancer.com - Kanpur, Uttar Pradesh
September 2022 to Present

• As a Data Science, Machine Learning, and Business Analytics Trainer at Freelancer.com, I have successfully trained operations and service engineers of Delhi Metro Rail Corporation in developing

a cutting-edge machine learning algorithm to optimize and schedule metro railway operations. Additionally, I have explored innovative crowd controlling algorithms to tackle sudden rush during peak hours.
As a recognized expert in my field, I have also served as a guest lecturer at various prestigious educational institutions across India, including Ramachandran International Institute of Management (RIIM - Pune), Gandhi Institute of Engineering and Technology University (GIETU, Odisha), Symbiosis (Noida - Pune), Galgotias University (Noida), and many more.

Associate Data Scientist

Decodr Technologies - Noida, Uttar Pradesh
March 2022 to July 2022

Data Science Trainer

Uncodemy - Noida, Uttar Pradesh
August 2021 to July 2022

• Prepare lessons and materials, leveraging existing uncodemy curriculum content for several hours per week.
• Work alongside the staff and teaching team to best meet the needs and learning styles of your students
• Guide students through development of a stellar final project that will showcase their abilities to hiring managers.
• Facilitate a dynamic and collaborative classroom community.
• Inspire students to persevere through the challenges of learning a new suite of skills

Data Scientist

GvCloud Secure - Noida, Uttar Pradesh
April 2019 to June 2021

Key skills included as a data scientist in my day to day tasks are:
• Programming Skills – knowledge of statistical programming languages like R, Python, and database query languages like SQL, Hive. Familiarity with Scala.
• Statistics – Good application of statistical skills, including knowledge of statistical tests, distributions, regression, maximum likelihood estimators, etc. Proficiency in statistics is essential for data-driven companies.
• Machine Learning – good knowledge of machine learning methods like K-Nearest Neighbors, Naive Bayes, SVM, Decision Forests.
• Strong Math Skills (Multivariable Calculus and Linear Algebra) - understanding the fundamentals of Multivariable Calculus and Linear Algebra is important as they form the basis of a lot of predictive performance or algorithm optimization techniques.
• Data Wrangling – proficiency in handling imperfections in data is an important aspect of a data scientist job description.
• Experience with Data Visualization Tools like matplotlib, ggplot, d3.js., Tableau that help to visually encoded data
• Excellent Communication Skills – it is incredibly important to describe findings to a technical and non-technical audience.
• Hands-on experience with data science tools.
• Problem-solving aptitude.
• Analytical mind and great business senses.

Junior Data Scientist

Solar Secure Solutions - 59/2, Okhla Industrial Area

September 2019 to March 2020

Unit - 2
D 4E Site -1 Panki Industrial Area ,
Kanpur Nagar - 208020

Here, Lucy Electric’s automation solutions include SCADA (Supervisory Control and Data Acquisition) systems, which allow the user to have full visual control and data accessibility of any medium voltage networked system architecture incorporating remote terminal units (RTUs) and/or protocol capable IEDs. The Gemini SCADA system is easy to configure and can be tailored to suit any control room operation. Scalable and affordable, the system architecture can be simply upgraded to manage future network expansion.

Technical Details:
• Performed real time data collection, database management and real-time dynamic data display.
• Extrapolated historical collection with real-time and historical trending graphs.
• Managed alarm, event, sequence of event management.
• Provided secure operator supervisory control.
• User-based security & On-line configuration.
• Windows-based solution that can be tailored to suit any control room operation.
• Multiple communications to RTUs, IEDs, PLCs or other I/O devices.
• DNP3, IEC 60870-5-101/104 plus others on request.
• Full OPC server and client support.
• Serial or Ethernet communication channels e.g. radio, GSM or GPRS.

Heat Treatment Operator

Indian Ordinance Factories (IOF). Small Arms Factory - Kanpur, Uttar Pradesh
May 2018 to January 2019

• Productions reports. Preparations and Operations. Adjusted guides and holding devices, reducing errors from potential misalignment or product movement. Used templates and hand tools to adjust machinery including alignment of drills, dies, and cutters. Oversaw machine operation to identify defects or malfunctions, making adjustments as necessary. Measured and inspected finished products for defects, and compared to work instructions for accuracy.

Project Intern

Ei Systems Technologies - Lucknow, Uttar Pradesh
June 2018 to September 2018

Conceptualized and developed relevant Predictive Analytical solutions. . Envisioning opportunistic areas with by demonstrating relevant and credible Predictive Analytics solutions and paradigms. The role may carrying out high level assessment of Analytics readiness and creating the associated analytic benchmarking which may ultimately converge into a specific Predictive Analytics roadmap. Worked with wide variety of data and implicated diverse set or library and created algorithms to extract useful insights.

Research Analyst / Associate

IIT New Office Automation. Indian Institute Of Technology - Kanpur, Uttar Pradesh
April 2018 to September 2018

• Conducted competitive analysis on market offerings, identifying market trends and opportunities. Managed client marketing strategies and product promotion campaigns. Conducted competitive analysis on market offerings, identifying market trends and opportunities. Created SWOT (Time Frame) analysis

to evaluate and determine next steps in building a more profitable business. Developed marketing strategies for based on research findings, increasing efficiency by 30%

Summer Trainee

Indian Ordnance Factories, Small Arms Factory - Kanpur, Uttar Pradesh
June 2016 to August 2016

Gained first hand voluntary experience of various Heat Treatment Operations, tempering, smelting, decarburizing and grain structure refinement process in order to get the desired characteristics in the material.

Education

Master's in Data Science & Machine Learning

IIM Lucknow - Lucknow, Uttar Pradesh
April 2020 to June 2021

Bachelor's in Material Science & Metallurgical Engineering

University Institute Of Engineering & Technology - Kanpur University, Uttar Pradesh
March 2012 to 2017

Higher Secondary(12th Pass) in Physics, Chemistry, Mathematics

Uttar Pradesh Board Of Higher Secondary Education - Kanpur, Uttar Pradesh
January 2011 to December 2011

Secondary(10th Pass) in Physics, Chemistry, Mathematics

Uttar Pradesh Board Of Secondary Education - Kanpur, Uttar Pradesh
January 2009 to December 2009

Skills / IT Skills

- Microsoft Office, Python, SQL Server, RStudio, Jupyter NoteBooks, Scala, Statistical Analysis, Predictive Modeling, Data Visualization, Data Interpretation, Data Warehousing, Forecasting Ability, Advance Structural Analysis, Advanced Engineering Mathematics, Advanced Surveying, Analytical Decision Modelling, Data Pipeline Architecture. (4 years)

Languages

- English - Expert
- Hindi - Fluent

Online Profile

http://singh-ashish@live.in

https://ashish-singh-datascientist-dataanalyst.github.io/

https://linkedin.com/in/ashishsinghchauhan

Awards / Achievements

Associate Fest Incharge
September 2014

Permanent member of SAC at 'UIET'. fest in-charge of Spandan 2K-13 cultural college festival & other technical programs.

ML Intern
September 2019

Carnegie Mellon University . Internship

Certifications and Licenses

Data Analytics & Machine Learning
June 2021 to Present

Penn State University . Remote Internship
Envisioning opportunistic areas with by demonstrating relevant and credible Predictive Analytics solutions and paradigms. The role carried out high level assessment of Analytics readiness and creating the associated analytic benchmarking which may ultimately converge into a specific Predictive Analytics roadmap.

Credential ID : 21ESYSN401

Machine Learning - Stanford University
October 2020 to Present

Stanford University

Credential ID SDG2GU5UFRWY

Microsoft Certified : Azure AI Engineer Associate
June 2021 to Present

Microsoft

Applied Data Science with Python - Level 2
November 2019 to Present

IBM

Microsoft Certified : Azure Data Scientist Associate
January 2021 to Present

Microsoft

Udacity Bertlelsmann Scholar
April 2019 to Present

Trainee

Remote Intern - Machine Learning

July 2019 to Present

MIT Sloan School of Management . Insternship

Credential ID WPJ3H95699VS

Global Remote Monitoring

May 2019 to Present

IBM

Convolutional Neural Network

March 2021 to Present

Coursera

Projects / Papers Presented

Portfolio Projects

https://ashish-singh-datascientist-dataanalyst.github.io/

July 2021

Visit this website by clicking on the URL to dive straight into my Portfolio Assessment. Thank You !!

Forecasting Application - Starts and Budget Allocation Optimization

December 2019

Assisted University of Phoenix in forecasting the number of Application-Starts, they would receive each month, by Last Touch Channel. The Python model reflects seasonality and is dependent on Channel Budgets and Conversion Rates. The additional benefit of this model is its ability to capture the impact of each channel on the number of Application-Starts, which eventually helps the university in their budget allocation for channels. The tools we used for the project were Excel, Python and Adobe Analytics. The forecasting techniques we utilized were ARIMA, SARIMAX, Logarithmic-Regression with One-Hot-Encoding and Holt’s.

Market Response Model - Creating Scalable-Efficient Data Pipeline Architecture

May 2020

Built a response model that boosted the efficiency of a marketing campaign by predicting accurate responses to a service/product. The data collected, was of about 2200 people and it incorporated their family details, food consumption details and responses to various ad-campaigns. The model, using Stepwise Regression, removed the least independent variables and then ran Factor Analysis on the extracted variables. The reformed datasets were trained and tested on various models such as General Linear Model, Linear Discriminant Analytical Model, Quadratic Discriminant Analytical Model, Decision Tree Model and Random Forest Models.

Recommendation System - Social Network Analysis

August 2020

Developed an Item-Item Similarity based Recommendation system, which was amalgamated with Graphical Network Measures to make co-purchasing recommendations for a user. The similarity

measure took into consideration Clustering-Coefficient, Degree Centrality, Similarity with other co-purchases, Sales-Rank, Average-Ratings and Total Reviews it had garnered.

About Care - Volunteer Optimization

February 2021

Project description - Helped About Care, an NGO in minimizing the commute, their volunteers had to make, to proffer their services to the assigned client. We took the residence data of 180 volunteers and 335 clients and used Google API to form a Distance Matrix between each volunteer and client. We then used Python and Excel for the Decision Assignment Matrix between volunteer and client.
Line Of Balance Scheduling Technique - Multi-Building Project
Jan 2018 – May 2018

Project description
• Led project team to conduct on-site research and gather data
• Performed a Time-Analysis, Network-Analysis and Root-Cause Analysis
• Results suggested that the improper networking led them to a delay of about 8 months

Building a Big Data Pipeline with AWS Quicksight, Druid, and Hive

October 2021

Used the dataset on aviation for analytics to simulate a complex real-world big data pipeline based on messaging with AWS Quicksight, Druid, NiFi, Kafka, and Hive.

• End-to-end implementation of Big data pipeline on AWS.
• Scalable, reliable, secure data architecture followed by top notch Big data leaders.
• Detailed explanation of V's in Big Data and data pipeline building and automation of the processes.
• Real time streaming data import from external API using NiFi.
• Build both Batch and streaming data pipeline on AWS from NiFi.
• Wrote the data into HDFS (batch) and Kafka(streaming ingestion) using NiFi.
• Ingested the data into Druid using HDFS(batch ingestion) as well as Kafka(real time).
• Compared the performance of Druid or Hive.
• Discussed limitations and opportunities with Druid and Hive.
• Hive external table creation on top of Hadoop distributed file system (HDFS) data.
• Performing ETLs which are widely used in the industry on top of Hive data and storing into managed table.
• Visualizing Hive data using AWS Quicksight to calculate some of the KPIs in Aviation data.

Walmart Sales Forecasting Data Science Project

August 2021

Data Science Project in R-Predict the sales for each department using historical markdown data from the Walmart dataset containing data of 45 Walmart stores.

• Performed basic EDA to familiarize with the data.
• Took care of missing values and datatype issues in the data.
• Understood the unique key in different data and merging the data.
• Performed Univariate analysis for both numeric and categorical variables.
• Performed Bi-variate analysis to identify redundant variables.
• Plotted Trend of each predictor with the target variable.
• Did in-depth analysis on the impact of Date/Week on Sales.

- Created new features that might add value to the model.
- Defined a function for each set of code that might need to be repeated again.
- Prepared the data for modelling.
- Made prediction using statistical techniques.
- Made model using machine learning techniques.
- Created time series ARIMA models and learn to give their parameters.
- Performed Hyper-parameter tuning to get the best parameters.
- Learned how to make predictions where data is sparse.
- Compared the performance of different models using multiple metrics.