Nitin Patil

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Department of Civil Engineering

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ACADEMIC QUALIFICATIONS

Year	Degree	Institute	Performance
2023	B.Tech	Indian Institute of Technology Kanpur	6.7/10.0
2018	CBSE(XII)	R D Public School, Betul	85.0%
2016	CBSE(X)	R D Public School, Betul	10.0/10.0

WORK EXPERIENCE

• **EXL Service |** *Cloud Engineer*   *Oct'23 - Present*

- Automated manual tasks using **Lambda Function** to increase efficiency and streamlining things
- Developed and registered models with **Model Registry** in **SageMaker**
- Creating **CI/CD Pipelines** to validate and deploy **CloudFormation** Stacks
- Created **Containerized flask** application and deploy it over EC2 instance
- Addressed daily operational challenges on cloud platforms, ensuring consistent functionality and **client support**
- Explored new **AWS services** through research and development, resulting in **POC** and comprehensive reports

• **Taghive Inc. |** *Data Analyst Intern*   *May'22 - Jul'22*

- Conduct a thorough lifecycle analysis of the company's Class Saathi app to give valuable insights through reports
- Performed **exploratory data analysis** of the dataset after cleaning and visualized trends using **seaborn and matplotlib**
- Implemented advanced Excel functionalities like **Pivot Tables** and **VLOOKUP** on dataset to perform data analysis
- Defined **Key Performance Indicators (KPIs)** like **Heavy Users** and other useful **metrics** to measure the app's success
- Successfully predicted **user engagement pattern** of upcoming months using **linear regression** and previous year data

KEY PROJECTS

• **Time Series Forecasting to Forecast Future Sales of Furniture**   *Apr'22 - May'22*

- Developed a model to predict and forecast the sales of furniture for the next one year by applying **Time Series** analysis
- Performed **in-depth EDA** of sales data using different segments such as product categories and regions
- Applied statistical techniques like **Dicky-Fuller test**, **Decomposition** and **ACF/PACF** plots to evaluate data features
- Checked the stationarity and identified the nature of the data using **adfuller test** and **null hypothesis**
- Implemented Time Series Analysis using **Seasonal ARIMA Model** and **Fbprophet** with an **RMSE 116.45**

• **Stock Market Data Analysis and Price Prediction using Neural Networks |** *Course Project (HSO201A)*   *Jan'21 - Apr'21*
Mentor: Prof. Dr. Somesh K. Mathur, Department of Economic Sciences, IIT Kanpur

- Proposed an approach towards stock prediction using the **ANN (Artificial Neural Network)** technique
- Reduced the multi-dimensionality of the data by using **Principal Component Analysis (PCA)** to train network faster
- Used the reduced data as the **input vector** for the Artificial neural network (ANN) after applying PCA
- Propagated the input obtained for ANN through **feed-forward step** one by one using **MATLAB toolbox**
- Used **Backpropagation** for **Weight Updating** which uses **gradient descent** to minimize error in cost function
- Outperformed the previous model and predicted the prices of stocks with minimum error in prediction

• **Tableau-SQL Integration Project**   *July'22 - Aug'22*

- Analyze Employees database using MySQL and integrate with Tableau to visualize patterns of their salaries
- Analyzed the data after loading the database to MySQL using **Select, Insert, Update, Delete** and aggregate functions
- Executed **Joins, Views, Subqueries, and Advanced queries** for department-wise analysis of **KPIs** such as salary
- Transferred the data & organized different charts into an **Interactive Dashboard** using Tableau Public
- Used Databases, Database Tools, and Visualization Tools such as **MySQL, MySQL Workbench** and **Tableau Public**
- Successfully analyzed the relation between average salaries of employees and integrated SQL-Tableau

TECHNICAL SKILLS

- **Languages:** Python | C++
- **AWS Services:** SageMaker | AWS Lambda | CodePipeline | CloudFormation | Cloud9 | Step Functions| EC2| CodeCommit | CodeBuild | Amazon S3 | AWS CLI
- **Skills and Areas of Interest:** Cloud Computing | Machine Learning | MySQL
- **Libraries:** Boto3 | Numpy | Pandas | ScikitLearn

RELEVANT COURSEWORK

Fundamentals of Computing	Applied Probability and Statistics	Linear Algebra and ODE
Computational Methods in Engineering	Geoinformatics	