# Akash Zalke

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A motivated individual looking to work in a creative and challenging environment using cutting edge technologies where I can constantly learn and improve my technical abilities.

## PROFESSIONAL EXPERIENCE

**Big Data Engineer**                                                                                                       **Jan'22 — Present**
Persistent Systems

- Automated internal certificate verification using data mining techniques.
- Gained expertise in Distributed Sytems and data warehousing techniques.
- Experienced in working with big data technologies, such as Hadoop, and able to perform data processing and analysis at scale
- Comfortable with writing code in programming language such as Python, and familiar with software development best practices, such as version control, testing, and continuous integration/deployment.

## PROJECTS

**Color-Matrix-Based-Virtual-Password-System  |  Link**
- A secure system against various attacks like man-in-middle, shoulder surfing,etc. .
- Mapped keywords strokes to randomized color matrix for encrypting password with initial of a color.
- Built Website using **Python Flask** Framework.
- Used Custom Encryption method along with utf-8 for encryption of data .

**Compress File Using Huffman Algorithm | GitHub | Blog**
- Compressed a File algorithm that uses variable-length codes.
- It is a **lossless** data compression algorithm that uses variable-length codes to represent data.
- It is widely used in data transmission, data storage, and image and audio compression.

**ETL pipeline using Pyspark and oozie | GitHub**
- Made an end-to-end ETL pipeline of extracting data from SharePoint using its api
- Appended that data into hive table using **Pyspark**
- Scheduled this workflow using **oozie**

**Undefeatable TickTackToe AI using Minmax Algorithm | GitHub | Blog**
- Implemented the Minimax algorithm to determine the best move for the AI opponent.
- The algorithm looks at all possible moves for the current player and then looks at all possible countermoves for the other player.
- It is used in a two-player game, such as chess or tic-tac-toe ,etc

**Covid19 Analysis using Azure DataFactory**
- Made a pipeline and analyzed covid19 data using Storage System (blob, Datalakegen2) , Data Factory, SQL, Databricks, HDInsight

**YouTube Analytics pipeline using YouTube API v3 | Github**
- Created a pipeline where I ingested data from YouTube API to gain specific subscriber count for specific region for specific tags and analyzed their subscriber count over the period.

## ACADEMIC QUALIFICATIONS

**Government College of Engineering, Nagpur, India**                                                    **Jul'18 – Jun'22**
BE in Computer Engineering                                                                                        (CGPA – 8.4/10.0)
**Courses:** Data Structures & Algorithms, Database Management System, Web Technology, Software Modeling & Designing

## SKILLS

| | |
|---|---|
| **Programming** | Python, C++, HTML, CSS |
| **Framework** | Pyspark, Hadoop, Django, Flask |
| **Databases** | MySQL, PostgreSQL, Cassandra, MongoDB. |
| **Data warehouses** | Hive, Azure Synapse, Snowflake |

## ACHIEVEMENT

- Won Build.AI (Hack-a-thon) Issued by Association for Computing Machinery (ACM) among 100+ teams our model yield the highest accuracy of 92%
- Published a paper at International Journal of Research in Engineering and Science (**IJRES**) for our project Color-Matrix-Based-Virtual- Password-System Link
- Have experience of freelancing and have contributed to various projects.
- **12th** in Code Gladiators Tech Gig - Semifinals. Link
- Completed **Azure Fundamentals** Certification Link
- Solved 800+ question on various platform like leetcode,HackerRank

## INTERESTS

- Game Making (UndeafeatableTicTacToe , Naruto Vs Sasuke , Snake Game )
- Chess
- Video Editing