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 analysed covid19 data using Storage System (blob, Datalakegen2) , Data Factory, SQL, Databricks,HDInsight

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 hig hest 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