

# TANANSH AHUJA



## CONTACT DETAILS



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## CORE COMPETENCIES

- Backend Development
- API Development
- Database Management
- Troubleshooting & Debugging
- MVC Architecture
- Data Pipeline Development
- Machine Learning Model Development
- Model Deployment
- Data Preprocessing & Cleaning
- Regression & Classification Algorithms
- Random Forest & Ensemble Models
- Data Analysis & Visualization
- Data Integration & ETL
- Problem Solving & Debugging
- Agile & Scrum Methodologies
- Version Control
- API Security & Optimization
- Data-Driven Decision Making
- Statistical Analysis

## EDUCATION

B.Tech. in Computer Science,  
Jaypee Institute of Information  
Technology, Noida  
Year of Passing: 2023

## CERTIFICATIONS



- Expert Certification in Excel



- Azure Data Factory Certification  
(In Progress)



- Tableau Certification (In Progress)

## PERSONAL DETAILS

- Date of Birth:** 17<sup>th</sup> Aug 2000
- Languages Known:** Hindi and English
- Address:** Pune, India



## PROFILE SUMMARY

- ⌚ **Proficient Backend Developer** with hands-on experience in building robust APIs using **FastAPI, Unicorn, Django, and Node.js**, ensuring seamless integration with SQL databases through expert-level database design, normalization, and MVC architecture implementation.
- ⌚ **Machine Learning Engineer** adept at developing, deploying, and optimizing ML models using **Azure Machine Learning Studio and Azure Data Factory**, with expertise in data preprocessing, pipeline creation, and selecting appropriate algorithms like regression and random forest to drive impactful insights.
- ⌚ **Aspiring Data Analyst** actively upskilling in **Tableau** and holding an **Expert Excel Certification**, with a focus on mastering data visualization, dashboard creation, and data storytelling to transform complex datasets into actionable business insights.
- ⌚ Strong understanding of **end-to-end backend development & data integration**, demonstrated through professional experience at **TCS** and academic projects, with a proven ability to manage API development, database management & cloud-based ML deployments.
- ⌚ **Robust acumen in performing in-depth data analysis** to extract meaningful insights and **identify patterns, trends, and opportunities**; interpreted data findings and **presented actionable recommendations** to drive informed business decisions.
- ⌚ **Excels in developing and implementing machine learning models** to solve business problems and improve processes, including selecting appropriate algorithms, fine-tuning hyper parameters, and evaluating model performance.
- ⌚ **Proficient in applying machine learning algorithms** for predictive modelling, classification, regression, and clustering tasks.
- ⌚ Adept at **problem-solving and critical thinking**, capable of identifying optimal ML models based on input-output requirements, ensuring data quality through cleaning and filtering processes, and delivering high-performance solutions aligned with business needs.



## PROJECTS UNDERTAKEN

**All Teachers App (Ongoing Project) | Skills: Python, Tkinter, Flutter, Docker, PostgreSQL**

- ⌚ Designing a multi-user system for teachers to track student performance, manage marks and attendance, and automate report generation and grading.

**Cuetron (TCS) | Skills: Python, PostgreSQL, FastAPI, Unicorn, Azure Data Factory**

- ⌚ Optimized data processing by 50% through cleaning and preprocessing, developed automated pipelines and refined models, integrated APIs for various functionalities, and maintained clean code architecture.

**Ooro (College Project) | Skills: Python, Machine Learning, Node.js, JavaScript, Jupyter Notebook, React**

- ⌚ Developed a machine learning model with Python-based preprocessing, built backend APIs using Node.js and JavaScript, and integrated a React frontend with the backend.



## TECHNICAL SKILLS

- ⌚ **Programming Languages:** Python, C++, R, Node.js, Java, JavaScript, PHP, SQL
- ⌚ **Frameworks & Libraries:** FastAPI, Django Rest API, Machine Learning (Regression and Classification)
- ⌚ **Cloud & Data Engineering:** Azure Data Factory
- ⌚ **Databases:** MongoDB, PostgreSQL, MySQL
- ⌚ **Tools & Technologies:** Advanced Excel



## WORK EXPERIENCE

**Since Aug'23 | System Engineer | Tata Consultancy Services (TCS)**

- ⌚ Engineered and deployed robust backend architectures leveraging Python, FastAPI, and Azure Data Factory, ensuring scalability and high performance.
- ⌚ Orchestrated the design, development, and optimization of RESTful APIs, enhancing system efficiency and user experience.
- ⌚ Integrated complex third-party services into existing frameworks, streamlining data flow and improving backend interoperability.
- ⌚ Leveraged cloud technologies to automate data processing workflows, driving operational efficiency and reducing manual interventions.
- ⌚ Diagnosed and resolved intricate backend issues, applying advanced problem-solving techniques to maintain system integrity and performance.
- ⌚ Continuously expanded technical proficiencies by mastering C++ and R, fostering a versatile and adaptive engineering skill set.
- ⌚ Pursuing dynamic and challenging backend development roles to contribute to innovative projects and drive technological growth.



## INTERNSHIP

**3 months | MongoDB and Nodejs website enhancement | Wizard Infoways Pvt. Ltd.**

- ⌚ Optimized MongoDB queries, reducing page load times by 30% & enhancing user experience.
- ⌚ Developed and deployed Node.js features, boosting user engagement by 20%.
- ⌚ Ensured timely delivery of a high-stakes project under tight deadlines with strong time management and problem-solving skills.