Dinesh Tunguturi

Python Developer | Backend Developer (Python) | Data Analyst (Python) | Django Developer

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LinkedIn

SUMMARY

Software Developer proficient in development and skilled in building responsive, user-friendly web applications.
Strong collaborator with a passion for optimizing web performance and learning new technologies.
Committed to delivering high-quality code and continuously improving skills.

PROJECTS

Python Projects Portfolio Link
- Developed and deployed a personal project showcase website using HTML, CSS, and JavaScript to present beginner-friendly Python games and applications. The site features interactive games such as Quiz Game, Blackjack, Rock-Paper-Scissors, and more. Emphasized user-friendly interface design with animations and responsive layouts.

Machine Learning Techniques for Early Diabetes Diagnosis Link
- Conducted a comprehensive survey (2018–2020) on supervised and unsupervised machine learning techniques for early diabetes detection, evaluating models like C4.5, AdaBoost, and XGBoost, along with PCA and K-Means for feature selection and outlier detection.
- Demonstrated that combining K-Means with SVM significantly enhances diagnostic accuracy, highlighting the potential of machine learning to improve early diagnosis and reduce diabetes-related health risks.

Move With Joy Portfolio Link
- Worked with Move With Joy, a US-based startup, to develop brand messaging and website content focused on delivering a smooth and stress-free moving experience.

TinDog Portfolio Link
- TinDog is a fictional dating app for dogs, where dog owners can create profiles for their pets and 'swipe' to find doggy playmates or potential mates nearby. It mimics the format and UI/UX of Tinder but applies it to a dog-centered concept. A landing page with a modern, responsive design. Sections for Features, Testimonials, Pricing. Call-to-action (CTA) buttons. Clean and attractive layout styled with Bootstrap components.

Air Quality Prediction using ML Link
- Developed a machine learning–based air quality prediction system using Python and Django. The project involved collecting and preprocessing air pollution data (PM2.5, NO2, CO, etc.) to train classification models like Random Forest and Decision Tree using Scikit-learn. Visualized trends and pollutant impact using Seaborn, Matplotlib, and Plotly. Integrated the model into a web application built with Django, enabling users to input real-time pollutant data and receive AQI predictions with interactive charts. Emphasized data cleaning, feature selection, and performance evaluation using confusion matrix and classification reports to ensure reliable predictions.

Walmart Sales Data Analysis Using SQL Link
- Analyzed a 10,000-record dataset from Walmart containing branch-wise sales transactions across multiple cities. Used advanced SQL queries to extract business insights, such as identifying the highest-rated product categories by branch, peak sales days, total quantities sold by payment methods, and customer purchasing behavior. Implemented window functions, aggregation, and joins to generate summary reports and performance dashboards. The project highlights strong skills in data cleaning, transformation, and insight generation using SQL and Excel.

EDUCATION

Master Of Computer Applications in Computer Applications, Princeton PG college of information technology
Oct '23 — Present
Hyderabad, India

- **Master of Computer Applications (MCA)**
  Princeton PG College of Information Technology, Hyderabad
  Post Graduation: 2025
  Gained strong foundational knowledge in **software development**, **database systems**, and **data structures**.
  Completed academic projects using **Python**, **Django**, **React**, and **Machine Learning**.
  Worked on real-world applications including **air quality prediction**, **voice-controlled assistants**, and **resume-job matching bots**.
  Developed full-stack applications with **user authentication**, **data visualization**, and **session-based logging**.
  Familiar with **GitHub**, **PostgreSQL/SQLite**, **HTML/CSS/JS**, and **API integration**.
  Participated in **seminars, coding challenges**, and **academic paper writing** (e.g., IEEE-style reports).
  Proficient in tools like **Microsoft Excel, Word, PowerPoint, and OneDrive** for academic productivity.

B.Sc (Computer Science) in Degree, Pratibha degree and PG college (GPA: 85.5%)
Jun '20 — Aug '23
Siddipet, India

- **Bachelor of Science (B.Sc.) in Computer Science**
  Pratibha Degree and PG College, Siddipet
- **Intermediate (MPC – Maths, Physics, Chemistry)**
- **Secondary School Certificate (SSC)**

- **Master of Computer Applications (MCA)**
- **Bachelor of Science (B.Sc.) in Computer Science**
  CGPA: 8.55 | Completed: 2023
  > Studied core subjects including **C Programming, Data Structures, DBMS, Operating Systems**, and **Computer Networks**.
  > Built mini projects using **Python**, **MySQL**, and **HTML/CSS** as part of the academic curriculum.
  > Developed a strong base in **logical reasoning**, **programming concepts**, and **problem-solving**.
  > Participated in **coding contests**, **seminars**, and **group presentations** to strengthen technical and communication skills.
  > Completed practical lab sessions in **Java**, **SQL**, and **Web Technologies**.

Intermediate, Master minds Junior College (GPA: 75%)

Jun '18 — Mar '20
Siddipet, India

- **Intermediate (MPC – Maths, Physics, Chemistry)**
  Master Minds Junior College, Siddipet
  Percentage: 75.8% | Completed: 2020
  > Gained strong foundation in **Mathematics**, **Physics**, and **Chemistry** with analytical and logical problem-solving skills.
  > Developed discipline and time management through regular assessments and competitive preparation.
  > Participated in **college-level science exhibitions** and academic discussions.
  > Built basic interest in **computer science and programming**, leading to further studies in B.Sc. and MCA.

SSC, Ambitus School (GPA: 83%)

Jun '17 — Mar '18
Siddipet, India

- **Secondary School Certificate (SSC)**
  Ambitus School for Next Gen, Siddipet
  Percentage: 83% | Completed: 2018
  > Strong academic performance with focus on **Mathematics**, **Science**, and **English**.
  > Built a solid foundation in **problem-solving**, **basic computing**, and **communication skills**.
  > Actively participated in **school-level competitions**, **science fairs**, and **co-curricular activities**.
  > Developed interest in technology and logical thinking at an early stage.

SKILLS

Web Development   HTML5, CSS3, JavaScript, BootStrap
Backend Development   Python, Django, MySQL
Soft Skills   Problem-Solving, Attention to Detail, Team Collaboration, Strong Communication

CERTIFICATIONS

Python 101 for Data Science, IBM   Mar '25
Completion Of Python Training, Besant Technologies   Feb '24
STAR WORLD RECORDS PARTICIPATION IN MAGIC SQUARE GRIDS. 2015 - 2016, Star World Records   Dec '15