

# CHETHAN PATEL P N

Data Scientist, Technical Blogger & YouTuber

Transforming Data into Wisdom, Sharing Tech Stories & Creating Content

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## Education

<b>BMS Institute of Technology and Management Bengaluru, India</b> <i>Bachelor's in Computer Science and Engineering</i>	<b>Aug 2019 - Jun 2023</b> <i>CGPA: 8.35</i>
<b>Times PU College Channarayana Pattana, Karnataka</b> <i>11th and 12th Standard (PUC)</i>	<b>Jun 2017 - May 2019</b> <i>Percentage: 91.66%</i>
<b>Sri Padmavathy High School Shravana Belagola, Karnataka</b> <i>10th Standard (SSLC)</i>	<b>Jun 2016 - Apr 2017</b> <i>Percentage: 91.84%</i>

## Relevant Coursework

- Python Programming Language
- Artificial Intelligence
- SQL & RDBMS
- Machine Learning
- Data Structures and Algorithms
- Big Data Analytics

## Experience

<b>Mobileum</b> <i>Associate Software Engineer (AI/ML Team)</i>	<b>Feb 2023 - Present</b> <i>Bengaluru, India</i>
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- Collaborated on a groundbreaking project focused on combating telecom fraud, with the **primary objective of identifying fraudsters and unveiling their tactics**.
- Leveraged PySpark, GraphFrames, NetworkX and Gravis to seamlessly convert the extensive dataset into a comprehensive graph representation.
- Employed advanced graph concepts (Indegree, Outdegree, Rank, Centrality) to discern intricate patterns of fraud and test account behaviors within the telecom sector.
- Successfully detected and profiled fraudsters, introducing a novel observation called **Canary**, where fraudsters tested message delivery using designated accounts.
- Developed an interactive Streamlit dashboard, allowing dynamic threshold setting for filtering potential fraudsters based on engineered features.

### Internship Trainee

- Developed interactive dashboards to analyze network performance, such as Traffic Overview of specific network operators (CSPs), STIR-SHAKEN, and Rule Applied Reports.
- Applied advanced analytics techniques to discern trends, establish forecasts, and provide actionable insights to telecom organizations by using RAID

<b>Department of Computer Science, BMSIT&amp;M, Bengaluru</b> <i>Resource Person — 5-day Machine Learning Course</i>	<b>June 2023</b> <i>Bengaluru, India</i>
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- Conducted a 5-day Machine Learning course, focusing on Python.
- Delivered lectures, led hands-on sessions, and mentored participants.
- Assisted in course material design and evaluation, enhancing participant's employment prospects.

## Technical Skills

**Programming Languages:** Python, Java, C

**Advanced Analytics and Intelligent Technologies:** Artificial Intelligence, Machine Learning, Big Data Analytics

**Machine Learning Frameworks:** TensorFlow, PyTorch, Hugging Face, Keras, Scikit-learn

**Databases:** SQL (PostgreSQL, MySQL), NoSQL(MangoDB, CouchBase)

**Version Control Systems:** Git (GitHub)

**Data Analysis and Visualization:** Pandas, NumPy, Matplotlib, Seaborn, NetworkX, Gravis, Streamlit, PySpark, Hadoop, Map-Reduce

**Operating Systems:** Linux, Windows

**Deep Learning Architectures:**Artificial Neural Networks (ANN)

## Projects

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### MetalloInspect

- MetalloInspect, a deep learning project, focuses on classifying defects on metal surfaces.
- Implemented deep learning using Python and libraries like pandas, numpy, and PyTorch, it employed a convolutional neural network (CNN)
- Achieved high accuracy in defect classification, demonstrating the efficacy of the deep learning model. The project's success highlights its potential applicability in real-world scenarios, particularly in quality control and inspection processes.

### Alloc8Me

- Alloc8Me simplifies college allocation in Karnataka by analyzing K-CET ranks and preferences. It offers personalized matches.
- Developed with essential machine learning libraries—numpy, pandas, scikit-learn, and matplotlib.
- Alloc8Me efficiently matches K-CET ranks with top engineering colleges, ensuring robust data handling and machine learning functionalities.

### Computer Vision Techniques to detect the Cracks of Tunnels of Metro Railway(Ongoing)

- Applying computer vision techniques to detect cracks in railway tunnels.
- Utilizing image processing algorithms and machine learning for accurate crack identification.
- Collaborating with a team to curate and annotate a dataset for training and validation.

## Roles and Responsibilities

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### Head and Chief Content Strategist

**Aug 2023 - Present**

*Elevate 24x7*

*Bengaluru, India*

- Founded the Elevate24x7 YouTube channel and hired a team of eight juniors dedicated to aiding students in their placement preparation.
- Initiated three key-goals: Teaching foundational Math and Data structures to strengthen logical skills, providing free technical mock interviews to boost confidence, and sharing success stories of placed students.
- Delivered invited lectures as a mentor, guiding students on the ideal road-map for engineering. Emphasized problem-solving and logic building specifically tailored for MCA students, contributing to comprehensive student support.

### Campus Tech Leader

**July 2022 - Oct 2022**

*PW@Skills (Formerly iNeuron) and BMSITM*

*Bengaluru, India*

- Led as Campus Tech Leader, drove coding culture initiatives, organized workshops, and hackathons to instill a passion for coding in our college in collaboration with iNeuron.
- Orchestrated a team for an ML workshop on Healthcare. Provided practical insights and hands-on experience, elevating student skills in real-world applications.
- Conceptualized and executed a mock interview event, Placement Fevrr, on Unstop platform. Prepared students for placements through a comprehensive, simulated interview experience.

## Awards and Recognitions

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- Recognized with the Marubeni India Meritorious Scholarship 2019-20 for educational excellence.
- Secured the First position in Technical Quizathon at Technotsav 6.0 organized by SJCIT, Chikkaballapur
- Secured the Second position in QRIOUS Quiz event organized by Mobileum

## Invited Talks

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- RoadMap For Engineering Journey - BMSIT Induction Program 2023
- Tips & Tricks for the next 100 Days: For Placement Preparation - Senior talk 2023, Organized by Placement cell
- Problem Solving & Algorithmic Thinking - Dept. of MCA, BMSIT

## Core Skills

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- Solid understanding of machine learning algorithms and concepts, including Supervised and Unsupervised learning
- Proficiency in Python and its associated libraries for machine learning and data analysis.
- Strong problem-solving skills and the ability to think critically and analytically.
- Enthusiasm for learning and staying updated with the latest advancements in AI and related technologies.