Priyanshu Kumar

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EDUCATION

❖ **Bachelors of Technology in Computer Science**   Nov. 2022 – May 2026
National Institute of Technology, Delhi   *ongoing*
  ➢ **Relevant coursework:** Database Management Systems, Operating Systems, Design & Analysis of Algorithms, Data Structures & Algorithms, Computer Architecture, Artificial Intelligence, Machine Learning, Deep Learning, Computer Networks, App Development.

❖ **Higher Secondary Certificate**   Apr. 2020 – Apr 2021
Kalka Public School   *81.6%*

❖ **Secondary School Certificate**   Apr. 2018 – Apr 2019
Kalka Public School   *90.0%*

EXPERIENCE

Tech Mahindra | *Tech Intern*   *May 19 – July 18,2025*
  ❖ Collaborated with client in the BFSI domain to analyze and optimize **DORA metrics** using **Agile** and **DevSecOps** practices for improved software delivery performance.
  ❖ Co-authored a research paper for comparing **toolchains and deployment strategies** across financial institutions, proposing a custom model to enhance Bank's CI/CD pipeline.

Codenyx Technologies Pvt Ltd | *Software Development Intern*   *June 1 – July 31,2024*
  ❖ Developed a prototype **customer support platform** for client, featuring live chat, ticket tracking, and analytics dashboards; collaborated on early-stage UI design in a 2-member team.

Auto Shine Care | *Founding Team and Web Development*   *July 7 – August 21,2023*
  ❖ **Ideated and Co-founded** a digital platform to help connect **local car washers** and **car service dealerships** through a centralized online marketplace & worked in a 4-member team to design and launch the company website.

PROJECTS

RENTIFY | *React Native, Firebase*
  ❖ A **cross-platform mobile app** built with **React Native**, enabling users to list, rent, and manage products.
  ❖ Integrated **Firebase services** for real-time database, authentication, cloud storage, and notifications; implemented features like secure transactions, product listings, order tracking, and user profiles.

BRAIN STROKE PREDICTION | *FNet, EANet, ViT, Switch Transformer, IFNET (improved)*
  ❖ Built a **hybrid deep learning system** to predict brain stroke using both **medical imaging (CT, MRI)** and **tabular health records**, addressing early detection of strokes caused by clots or vessel rupture.
  ❖ Applied and compared **transformer-based models: Switch Transformer** and **FNet** for text, **ViT** and **EANet** for images; improved FNet with a custom **SMOT layer**, boosting accuracy from **95% to 97%** (proposed **IFNet** model).

VISION ENHANCED SPEECH TO TEXT | *3D CNN, Transformer, CTC*
  ❖ Developed a **lipreading-based speech recognition model** combining **3D CNN**, **Transformer**, & **CTC loss**, achieving **96.2% sentence accuracy** on the GRID dataset and reducing **word error rate (WER) to 3.8%**.
  ❖ Designed a pipeline where **3D CNN** captures lip movements, **positional encoding** preserves frame order, and the **Transformer** learns big patterns in the video and **linear + CTC** guesses the letters and matches them to the text.

TECHNICAL SKILLS

  ❖ **Programming Languages:** C/C++, Python, HTML/CSS.
  ❖ **Databases:** MySQL, MongoDB, Firebase.
  ❖ **Frameworks and Libraries:** Node.js, Express.js, React.js, Next.js, React Native
  ❖ **Developer Tools:** Git, GitHub, VS Code, PyCharm.
  ❖ **Other Skills:** Content Writing, Graphic Design (Canva, Figma).

EXTRA-CURRICULAR

  ❖ Actively contributed to five college clubs, taking on diverse roles such as **Executive Member** (Literature Club), **PR & Outreach Head** (Startup Club), **Junior Consultant** (Consulting Club), **Database Volunteer** (Training & Placement Cell), and **Organizing Team Member** (Cultural Club).
  ❖ Over **4 years of experience in content writing**, including creative content.