**TCNN -**

Using device: cuda

Training TCNN...

Epoch 1, Loss: 0.06990761682391167

Epoch 2, Loss: 0.06975247114896774

Epoch 3, Loss: 0.0696059800684452

Epoch 4, Loss: 0.06941926255822181

Epoch 5, Loss: 0.06920285448431969

Epoch 6, Loss: 0.06888530030846596

Epoch 7, Loss: 0.06836894899606705

Epoch 8, Loss: 0.06734994277358056

Epoch 9, Loss: 0.06530581712722779

Epoch 10, Loss: 0.06154324039816857

Epoch 11, Loss: 0.05687199011445045

Epoch 12, Loss: 0.0516619011759758

Epoch 13, Loss: 0.04771662726998329

Epoch 14, Loss: 0.04569247514009476

Epoch 15, Loss: 0.044790101051330564

Epoch 16, Loss: 0.04279545098543167

Epoch 17, Loss: 0.04183118864893913

Epoch 18, Loss: 0.04120784699916839

Epoch 19, Loss: 0.04067844450473786

Epoch 20, Loss: 0.0402118131518364

Epoch 21, Loss: 0.03958265110850334

Epoch 22, Loss: 0.03925199285149574

Epoch 23, Loss: 0.038911382853984836

Epoch 24, Loss: 0.03861902728676796

Epoch 25, Loss: 0.03861272782087326

Epoch 26, Loss: 0.03837052434682846

Epoch 27, Loss: 0.03790126219391823

Epoch 28, Loss: 0.037865564599633215

Epoch 29, Loss: 0.037388928979635236

Epoch 30, Loss: 0.0373453464359045

Epoch 31, Loss: 0.03707324787974357

Epoch 32, Loss: 0.03689396157860756

Epoch 33, Loss: 0.03701049201190472

Epoch 34, Loss: 0.03664353378117084

Epoch 35, Loss: 0.03661276698112488

Epoch 36, Loss: 0.03655095547437668

Epoch 37, Loss: 0.03628060184419155

Epoch 38, Loss: 0.03666348420083523

Epoch 39, Loss: 0.03610212951898575

Epoch 40, Loss: 0.03612556681036949

Epoch 41, Loss: 0.03583772592246533

Epoch 42, Loss: 0.03578092455863953

Epoch 43, Loss: 0.035830887779593465

Epoch 44, Loss: 0.03567316122353077

Epoch 45, Loss: 0.035538962855935094

Epoch 46, Loss: 0.03564973026514053

Epoch 47, Loss: 0.03533774167299271

Epoch 48, Loss: 0.035229960829019545

Epoch 49, Loss: 0.035078621655702594

Epoch 50, Loss: 0.03501073941588402

Evaluating TCNN...

Test Loss: 0.0426737517118454

Test SSIM: 0.30149517953395844

Test PSNR: 61.86055066664119

**CONVOLUTIONAL LSTM -**  
Using device: cuda

Training ConvLSTM...

Epoch 1, Loss: 0.07027189657092095

Epoch 2, Loss: 0.07024455219507217

Epoch 3, Loss: 0.07021449208259582

Epoch 4, Loss: 0.07018461003899575

Epoch 5, Loss: 0.07015524804592133

Epoch 6, Loss: 0.07011939510703087

Epoch 7, Loss: 0.07009401097893715

Epoch 8, Loss: 0.07005940452218055

Epoch 9, Loss: 0.07002792656421661

Epoch 10, Loss: 0.07000563815236091

Epoch 11, Loss: 0.06997027099132538

Epoch 12, Loss: 0.069940185546875

Epoch 13, Loss: 0.06991193518042564

Epoch 14, Loss: 0.06987909153103829

Epoch 15, Loss: 0.06985646188259124

Epoch 16, Loss: 0.06982204541563988

Epoch 17, Loss: 0.06979303732514382

Epoch 18, Loss: 0.06976030096411705

Epoch 19, Loss: 0.06973352655768394

Epoch 20, Loss: 0.06969940587878228

Epoch 21, Loss: 0.069670919328928

Epoch 22, Loss: 0.06964026540517806

Epoch 23, Loss: 0.0696141004562378

Epoch 24, Loss: 0.06958015859127045

Epoch 25, Loss: 0.06955535337328911

Epoch 26, Loss: 0.06952593326568604

Epoch 27, Loss: 0.06949440538883209

Epoch 28, Loss: 0.06946344897150994

Epoch 29, Loss: 0.06943723559379578

Epoch 30, Loss: 0.06940199360251427

Epoch 31, Loss: 0.06938024386763572

Epoch 32, Loss: 0.0693442702293396

Epoch 33, Loss: 0.06932252496480942

Epoch 34, Loss: 0.06928482428193092

Epoch 35, Loss: 0.06925832033157349

Epoch 36, Loss: 0.0692318044602871

Epoch 37, Loss: 0.06919777914881706

Epoch 38, Loss: 0.06917110234498977

Epoch 39, Loss: 0.0691470630466938

Epoch 40, Loss: 0.06911600008606911

Epoch 41, Loss: 0.06908165290951729

Epoch 42, Loss: 0.06905389875173569

Epoch 43, Loss: 0.06902536377310753

Epoch 44, Loss: 0.06899903118610382

Epoch 45, Loss: 0.06896931529045106

Epoch 46, Loss: 0.06893411949276924

Epoch 47, Loss: 0.06891479194164277

Epoch 48, Loss: 0.06887940764427185

Epoch 49, Loss: 0.06884897649288177

Epoch 50, Loss: 0.06882668435573577

Evaluating ConvLSTM...

Test Loss: 0.04616519995033741

Test SSIM: 0.0037328391917981207

Test PSNR: 61.52577712002716

**SOCIAL LSTM –**

Using device: cuda

Training SocialLSTM...

Epoch 1, Loss: 0.06499675139784813

Epoch 2, Loss: 0.06488905474543571

Epoch 3, Loss: 0.0647987350821495

Epoch 4, Loss: 0.06467330157756805

Epoch 5, Loss: 0.06453712731599807

Epoch 6, Loss: 0.06435999944806099

Epoch 7, Loss: 0.06398720741271972

Epoch 8, Loss: 0.06321017742156983

Epoch 9, Loss: 0.061711157113313674

Epoch 10, Loss: 0.059451217949390414

Epoch 11, Loss: 0.05569034814834595

Epoch 12, Loss: 0.05128088817000389

Epoch 13, Loss: 0.04743407294154167

Epoch 14, Loss: 0.043844306468963624

Epoch 15, Loss: 0.04222314804792404

Epoch 16, Loss: 0.040960793197154996

Epoch 17, Loss: 0.04009455293416977

Epoch 18, Loss: 0.03971269428730011

Epoch 19, Loss: 0.03891918584704399

Epoch 20, Loss: 0.03842520788311958

Epoch 21, Loss: 0.038105704635381696

Epoch 22, Loss: 0.03774535655975342

Epoch 23, Loss: 0.03752580210566521

Epoch 24, Loss: 0.03733146414160728

Epoch 25, Loss: 0.03707463890314102

Epoch 26, Loss: 0.03691705912351608

Epoch 27, Loss: 0.03674512915313244

Epoch 28, Loss: 0.03674980401992798

Epoch 29, Loss: 0.03647400215268135

Epoch 30, Loss: 0.03634978942573071

Epoch 31, Loss: 0.03637004867196083

Epoch 32, Loss: 0.03613416962325573

Epoch 33, Loss: 0.03605332113802433

Epoch 34, Loss: 0.035958973318338396

Epoch 35, Loss: 0.03584632165729999

Epoch 36, Loss: 0.03575372919440269

Epoch 37, Loss: 0.03593333922326565

Epoch 38, Loss: 0.035695262253284454

Epoch 39, Loss: 0.03563640378415585

Epoch 40, Loss: 0.035525723546743396

Epoch 41, Loss: 0.03545265421271324

Epoch 42, Loss: 0.035423646494746205

Epoch 43, Loss: 0.035370712727308275

Epoch 44, Loss: 0.035542428866028784

Epoch 45, Loss: 0.03539257235825062

Epoch 46, Loss: 0.03548130467534065

Epoch 47, Loss: 0.0353467546403408

Epoch 48, Loss: 0.03510769195854664

Epoch 49, Loss: 0.035184604674577714

Epoch 50, Loss: 0.03508984260261059

Evaluating SocialLSTM...

Test Loss: 0.04195442143827677

Test SSIM: 0.33611319959163666

Test PSNR: 61.93475266635429